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data from INPADCO

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NEWS 8 MAR 22 REDISTRY/ZERDISTRY - Sequence ammotations enhanced

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NEWS 9 MAR 22 PATDPASEC - New patent database available

NEWS 10 MAR 22 PATDPASEC - New patent database available

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NEWS 12 AFR 04 EMBASE - Database reloaded and enhanced

NEWS 13 AFR 05 EMBASE - Database reloaded and enhanced

NEWS 14 FR 18 New CAS Information Use Policies available colline

NEWS 15 AFR 15 Patent searching, including current-awareness alerts (SDIs), based on applications.

NEWS 16 MAR 23 REDISTRY hanced over the CALCAplus and USPATPLUL/USPAT2 way be affected by a change in filing date for U.S. applications.

18 MAY 23 REDISTRY hanced with patent drawing images

19 MAY 23 REDISTRY has been enhanced with source information from CEDMCATS

NEWS 10 JUN 05 The Analysis Edition of STM Express with Discover! NEWS 10 MMY 23 REDISTRY has been enhanced with source information from CHEMCATS

NEWS 19 JUN 06 The Analysis Edition of STN Express with Discover!

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NEWS 22 JUN 27 MARPAT displays enhanced with expanded G-group definitions and text labels

NEWS 24 JUL 07 STR Patent Forums to be held in July 2005

NEWS 25 JUL 13 SCISEARCH reloaded

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STR Analyst, now available

NEWS 27 AUG 11 Derwent World Patents Index(R) web-based training during August

NEWS 28 AUG 11 STR Analyst, now to be held in North America CHEMCATS

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AND CURRENT DISCOVER FILE IS DATED 13 JUME 2005

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chain nodes:
8 9 11 12 14 15
ring nodes:
1 2 3 4 5 6
chain bonds:
1-9 2-14 4-8 5-11 11-12 14-15
ring bonds:
1-2 1.6 2-3 2-4 4-5 5-6 ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6
exact/horn bonds:
1-2 1-6 1-9 2-3 3-4 4-5 4-6 5-6 11-12 14-15
exact bonds:
2-14 5-11
isolated winisolated ring systems : containing 1 :

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS 12:Atom
14:CLASS 15:Atom
Generic attributes:

Saturation : Unsaturated Mumber of Carbon Atoms : less than 7 Type of Ring System : Momocyclic 15: Number of Carbon Atoms : less than 7 Type of Ring System : Monocyclic

Lı STRUCTURE UPLOADED

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L2 QUE L1

-> D L2 L2 HAS NO ANSWERS L1 STR

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-> PILE REG COST IN U.S. DOLLARS

SINCE FILE ENTRY 0.42 FULL ESTIMATED COST

FILE 'REDISTRY' ENTERED AT 11:16:56 ON 29 AUG 2005 USE IS SUBJECT TO THE TENES OF YOUR STM CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COTPRIGHT (C) 2005 American Chemical Society (ACS)

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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The CA roles and document type information have been removed from the IDE default displey format and the ED field has been added, effective March 20, 2005. A new displey format, IDEEL, is now available and contains the CA role and document type information.

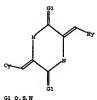
Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/CNLINE/DBSS/registryss.html

-> Testing the current file screen

ENTER SCREEN EXPRESSION OR (END) : end

Uploading C:\Program Files\Stnexp\Queries\DEHYDROFHENYLAHISTINS.str



Structure attributes must be viewed using STN Express query preparation. L2 OUE ABB=ON PLU=ON L1

"> S L2
SAMPLE SEARCH INITIATED 11:18:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 189 TO ITERATE

100.00 PROCESSED 189 ITERATIONS SEARCH TIME: 00.00.01 16 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED 1TERATIONS: 2956 TO 45
PROJECTED ANSWERS: 80 TO 5

16 SEA SSS SAM L1

-> FILE CAPLUS COST IN U.S. DOLLARS

SINCE FILE FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:18:35 ON 29 AUG 2005 USE IS SUBJECT TO THE TERMS OF YOUR SIN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPTRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10 FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

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•> 5 L3
            8 L3
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-> FILE REG COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY 0.45 FULL ESTIMATED COST 2.16

PILE 'REDISTRY' ENTERED AT 11:18:54 OH 29 AUG 2005 USE IS SUBJECT TO THE TERMS OF YOUR SIN CUSTOMER AGREDMENT. PLEASE REE "BELP USAGETEMES" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 20 AUG 2005 HIGHEST EN 861926-07-0 DICTICHARY FILE UPDATES: 28 AUG 2005 HIGHEST EN 861926-07-0

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/CRLINE/DBSS/registryss.html

-> S L3 SSS FULL
FULL SEARCH INITIATED 11:19:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3965 TO ITERATE

100.04 PROCESSED 3965 ITERATIONS SEARCH TIME: 00.00.04

348 SEA SSS PUL L1

.. FILE CAPLUS

COST IN U.S. DOLLARS FULL ESTIMATED COST

SINCE PILE TOTAL. ENTRY 161.33 163.49

348 ANSWERS

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Templates From Diketopiperasines
Wang, Shouming, Golec, Julian, Hiller, Warren, Milutinovic, Sandra,
Folkes, Adrian, Williams, Susannah, Brooks, Teresa, Hardman, Kavin,
Charlton, Peter, Wren, Stephen, Spencer, John
Department of Medicinal Chemistry, Yenova Ltd., Slough, Berkshire, SLI Charlton, Peter; Wren, Duspass, January, Land Chemistry, Yenova Ltd., Slough, Berkshire, 4ML, UK
Bioorganio & Medicinal Chemistry Letters (2002), 12(17), 2367-2370
CODEN: BMCLES, ISSN: 0960-694X
Elsevier Science Ltd. 50 PB DT English CASREACT 138:231267 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT 33 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN 2001:674625 CAPLUS 136:85797 Synthesis and in vitro evaluation of a series of diketopiperazine inhibitors of plamminogen activator inhibitor-1 Folkes, A., Roe, M. B., Sohal, S., Golec, J., Faint, R., Brocks, T., Charlton, P. Xenova Limited, Slough, Berke, SL1 4NL, UK Bicorganic & Medicinal Chemistry Letters (2001), 11(19), 2589-2592 CODEN: BNCLES, ISSN: 0960-894X Elsevier Science Ltd. ΑU CS SO PB EI
DT Jo
LA Ex
OS CI
RE.CNT Journal English CASREACT 136:85797 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
1994:18887 CAPLUS
124:261089
Preparation of 3-(phenyl, 2-thienyl, and 2-furanyl)methylene-2,5dioxogiperazine derivatives as inhibitors of plasminogen activator
inhibitor
Bryans, Justin Stephen, Folkes, Adrian John, Lathau, Christopher John
Yenova Lcd., UK
PCT Int. Appl., 74 pp.
CODEN: PIXEO2
PARENT SO PCT Inc. Appl., 74 pp.
CODEN: PIXXD2

DT PACENT
LA English

FAN. CATT 1

FI WO 9532190

A2 199551130

WO 1995-GB1180

19950214

WO 9532190

A2 19955114

WO 9532190

W: AM, AT, AU, BB, Bb, BE, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
CB, GE, HU, IS, JP, EE, KG, KP, KE, KZ, LK, LE, LT, LU, LV, MD,
MD, MM, MM, MC, ND, NZ, PL, JT, RO, RU, SD, SE, SG, SI, SK, TJ,
TM, TT

EW: KE, MM, SD, SZ, UQ, AT, BE, CH, DE, DK, ES, FR, GB, GE, IE, IT,
LU, MC, NL, PT, SE, BP, BJ, CF, CO, CT, CM, GA, GM, ML, MR, NE,
SN, TD TO

CA 2190279

A0 9525334

A1 19951210

A2 1995-2190279

A3 1995-2190279

A4 1995-2190279

A4 1995-2190279

A5 20526246

A6 1996-2100861

A7 19950524

A8 19960105

A8 199 Copyright of the articles to which records in this database refer is held by the publishers listed in the FURLISHER [FB] field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storiof this information, without the prior written consent of CAS, is strictly prohibited.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
39 L5
 -> D L4 1-8
       ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN 2004:531299 CAPLUS 141:89370
         Preparation of dehydrophenylahistins and analogs for treating cancer and
TI Preparation of dehydrophenylahistins and analogs for tre
fungal infection
IN Hayashi, Yoshio, Grodberg, Jennifer, Palladino, Michael
PA Mereus Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 148 pp.
CODEN: PIXEO2
DT Patent
LA English
PAN.CENT 1
PATENT NO. KIND DATE APPLICATION NO.
                                                                     APPLICANTS
WO 2003-US24232
MARPAT 141:89370
 os
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ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN 2002:585058 CAPLUS 138:231247 Novel Inhibitors of Plasminogen Activator Inhibitor-1: Development of New

	JP 10500425	TZ	19980113	JP 1995-530151	19950524
	US 5750530	À	19980512	US 1996-750020	19961217
'PRAI	GB 1994-10387	Ä	19940524		
	WO 1995-GB1180	W	19950524		
os	MARPAT 124:261069				
L4	ANSWER 5 OF 8 CAPLA	JS COP	YRIGHT 2005	ACS on STN	
AN	1995:994199 CAPLUS				
DN	124:55981				
TI	Preparation of 3,6-1	ois (ben	zylidene) pip	perazine-2,5-diones a	multidrug
	resistance modulator				
IN		en, La	tham, Christ	copher John; Brocchin	i, Stephen James
PA	Yenova Ltd., UK				
so	PCT Int. Appl., 70]	pp.			
	CODEN: PIXXD2				
DŤ	Patent				
LA	English				
FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9521830			WO 1995-GB300	
				A, CH, CN, CZ, DE, DK	
	CB CF WI	1D FF	YOU YO ME	O, MG, MN, MW, MX, NL	, MG, MG, FI,
	DT. BO PIT	SD. SE	SI SE T	J, TT, UA, UG, US, UZ	, No, No, FD,
				I, DE, DK, ES, FR, GB	
				, CG, CI, CM, GA, GN	
	SN, TD, TG				,,,
	GB 2286394	A1	19950816	GB 1995-2872	19950214
	GB 2286394	B2	19980812		
	AU 9515884	A1	19950829	AU 1995-15884	19950214
	ZA 9501181		19960814	ZA 1995-1181	19950214
			19981222	US 1996-693171	19961104
PRAI	GB 1994-2809	A	19940214		
	WO 1995-GB300	W	19950214		
os	MARPAT 124:55981				
L4 AN	ANSWER 6 OF 8 CAPLUS 1995:994198 CAPLUS	JS COP	IKIGHI 2005	AUS OR SIN	
DN	124:55980				
TI			ione desire	tive multiple drug re	ni et en oe
••	modulators	441464	TOTTE - CEL TAR	tive marciple drug le	el acatica
IN		Tames :	Bruane hier	in Stephen, Latham,	Christopher
	John, Folkes, Adrias		,		
PA	Yenova Ltd., UK				
so	PCT Int. Appl., 70	D.			
	CODEN: PIXXD2				
DT	Patent				
LA	English				
FAN.	CNT 1				
	PATENT NO.	KIND		APPLICATION NO.	DATE
		••••			
PI	WO 9521831	A1	19950817	WO 1995-GB301	19950214
	W: AM, AT, AU,	BB, BG	, BR. BY, CA	. CH, CN, CZ, DE, DK	, EE, ES, FI,
				R, KZ, LK, LR, LT, LU	
		NL, NO	, NZ, PL, Pl	r, RO, RU, SD, SE, SI	, SK, TJ, TT,
	UA, US	e7 r=	AT DE ~	1 NP NV 50 50 00	OD 12 TT
				I, DE, DK, ES, FR, GB F, CG, CI, CM, GA, GN	
	SN, TD, TG	rı, as	, ar, au, ca	., co, ci, ca, ua, ua	, rm, ra, na,
	GB 2286392	A1	19950816	GB 1995-2860	19950214
	GB 2286392	B2	19980812		
	AU 9516676	Al	19950829	AU 1995-16676	19950214
	ZA 9501175	Ä.	19960814	ZA 1995-1175	19950214
	US 5861400	Ã	19990119	US 1996-693169	19961104
		-			

PRAI GB 1994-2805 WO 1995-GB301 OS MARPAT 124:55980 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN 1995:994197 CAPLUS DN TI Preparation of piperazinedione-derivative inhibitors of plasminogen activator inhibitor activator inhibitor
Brocchini, Stephen Jenses, Bryans, Justin Stephen, Polkes, Adrian John,
Latham, Christopher John, Brumwell, Julie Elizabeth
Kanova Led., UK
PCT Int. Appl., 94 pp.
CODEN: PIXED2
Patent
ERT 1 IN PAN CNT PATENT NO. Ρī WO 9521832 UR. US. S. SZ. UO, AT, BE, CH. DE, DK, ES, FR, GB, GR, IE, IT,

EW: XE, MW, SD, SZ, UO, AT, BE, CH. DE, DK, ES, FR, GB, GR, IE, IT,

SN, ID, TO

GB 2286195

A1 19950816

GB 2296195

B2 19980826

CA 2182877

A1 19950816

CA 2182877

A1 19950817

A1 19950816

A1 19950817

A2 9516677

A1 19950817

A2 9516677

A3 19950818

A3 19950818

A4 19950818

A5 19960818

A6 19960818

A7 19950818

A7 19950818

A8 19960818

A8 19960818

A8 19960818

A8 19960818

A8 19960818

A8 19960818

A8 19950819

A8 19950819 19950816 19980826 19950817 19950829 19980625 19960814 19961204 , ML 19970916 19940214 19950214 19950214 ZA 9501180 A
EP 745070 A1
R: DE, ES, FR, GB, IT,
JP 09509157 T2 JP 1995-521082 US 1996-693172 19950214 19960925 US 5891877
PRAI GB 1994-2807
WO 1995-GB302
OS MARPAT 124:55979 19950214 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
1988:630947 CAPLUS
109:230947
Comjugated systems derived from piperazine-2.5-diome
Katritzky, Alan R.; Fan, Wei Oiang; Szajda, Maria; Li, Oiao Ling; Caster,
Kemeth C.
Dep. Chem., Univ. Plorida, Gainesville, FL, 32611, USA
JOURNAI of Heterocyclic Chemistry (1988), 25(2), 591-7
CODEN: JHTCAD; ISSN: 0022-152X
JOURNAI
ELIMINATES
CASERACT 100-7210947

ELIMINATES LA AN DN TI AU DT LA OS APPLECANTS -> 5 L6 NOT 004:531299/AN 1 2004:531299/AN 1 38-L6-NOT 2004:531299/AN -> D 1-39 IBIB ABS HITSTR L7 ANSWER 1 OF 38 CAPLUS ACCESSION NUMBER: 20 DOCUMENT NUMBER: 14 LUS COPYRIGHT 2005 ACS on STN 2004:1066409 CAPLUS 143:133671



171887-16-4P
RL: EPN (Biosynthetic preparation); ESU (Biological study, unclassified);
BIOL (Biological study); PREP (Preparation)
(enzyntc synthesis of dehydrocyclo(Bis-Phe)s, analogs of the potent
cell cycle inhibitor, dehydrophemylahistin, and their inhibitory
activities toward cell division)
171887-16-4 CAPLUS
2,5-Piperazinedione, 3-(1H-imidazol-4-ylmethylene)-6-(phenylmethylene)-,
(3Z,6Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

351325-37-6, (Z)-Dehydrophonylahistin
RL: RSU (Biological study, unclassified), BIOL (Biological study)
(enzymic synthesis of dehydrocyoloffils-Phe)s, analogs of the potent
cell cycle inhibitor, dehydrophenylahistin, and their inhibitory
activities toward cell division)
351325-37-6 CAPLUS

351325-37-6 CAPLUS
2.5-Piperazinedione, 3-{[5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4yl]methylene]-6-(phenylmethylene)-, (3Z,6Z)- (9CI) (CA INDEX NAME)

metry as shown

REFERENCE COUNT:

THERE ARE 9 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2005 ACS on STN 2004:550739 CAPLUS 141:106469 L7 ANSWER 2 OF 38 ACCESSION NUMBER: DOCUMENT NUMBER

Engmatic synthesis of dehydro cyclo(His-Phe)s, analogs of the potent cell cycle inhibitor, dehydrophanylahistin, and their inhibitory activities toward cell division

Kanzaki, Hiroshi; Yanagisawa, Satohiro, Nitoda, Teruhiko

Laboratory of Bioresources Chemistry, Faculty of Agriculture, Okayama University, Okayama, 700-8530, Japan TITLE: AUTEOR(S):

CORPORATE SOURCE:

Japan Bioscience, Biotechnology, and Biochemistry (2004), 69(11), 2341-2345 CODEN: BEBIEJ, ISSN: 0916-8451 SOURCE:

Japan Society for Bioscience, Biotechnology, and Agrochemistry PUBLISHER:

DOCUMENT TYPE: LANGUAGE: GI

Cyclo(His-Phe) (I) was effectively converted to its dehydro derivs, by the enzyme of Streptomyces albulus Ko-23, an albonoursin-producing actinomycete. Two types of dehydro derivs, were isolated from the reaction mixture and identified as cyclo(AHIs-APhe) and cyclo(His-APhe). This is the first report on cyclo-(His-APhe), and the enzymic preparation of both compds. Cyclo(AHIs-APhe), a tetradehydro cyclic dipeptids, exhibited a min. inhibitory concentration of

Pmol/mL inhibitory activity toward the first cleavage of sea urchin embryos, in contrast to cyclo-(Ris-APhs) that had no activity. The finding that the isopromylated derivative of cyclo (ARis-APhs) dehydronhyenvlahistin, had 2,000 times higher activity than cyclo(ARis-APhs) indicates that an isoprany] group attached to an isidazole ring of the compound was essential for the inhibitory activity. RL: RPM (Biosynthetic preparation), BIOL (Biological study), PREP (Preparation)

(Preparation)

(emzymic synthesis of dehydro cyclo[His-Phe)s, analogs of the potent
cell cycle inhibitor, dehydrophemylahistin, and their inhibitory
activities toward cell division)
351325-36-7 CAPUS
2,5-Piperazinedione, 3-(Hi-imidazol-4-ylmethylene)-6-(phenylmethylene)-,
(32,55)-(901) (CA IMDEN MANE)

Double bond geometry as shown.

TITLE: Preparation of piperazinediones as antiangiogenic INVENTOR (S):

Preparation of piperazinediones as antiangiogenic agents.

Teng, Che-ming, Wang, Eui-po, Li, Eric I. C., Lee, On, Guh, Jih-hwa, Chen, Euei-ting, Fan, Ya-bing, Chen, Ya-lan
Taiwan
U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S.
Ser. No. 851,077.
CODEN: USYYCO
Patent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 20040708 20020307 20031021 20020217 20031020 20010508 US 2004132738 US 2002028819 US 6635649 ZA 2002009917 PRICRITY APPLN. INFO.: A1 A1 B2 US 2003-689865 US 2001-851077 ZA 2002-9917 US 2000-304191P US 2001-851077 20021206 P 20000509 A2 20010508

OTHER SOURCE(S): MARPAT 141:106489

Title compds. I [A = H, CHRARD, CRARD with provisos; Z = CHRCRd, CRCRd with provisos; R1, R2 = H, CCRe, CCCRe, Ra, Rb, Rc, Rd, Re = H, slkyl, aryl, etc.] and their pharmaceutically acceptable salts were prepared for example, condensation of benealchyde and plepraninedine II, e.g., prepared from 1.4-diacetylpiperasine-2,5-dione and 5-bensyloxypyridin-2-ylformalchyde, afforded piperasinedione III as a mixture of isomers. In human umbilical wein endothelial cell (HUVECs) proliferation inhibition assays, a large number of compds. I inhibited HUVECs proliferation. Compds. I of the invention relate to a method for the treatment of angiogenesis related diseases.

To take invention relate to a marinod for the treatment of related diseases.

380620-78-06, 3-(5-Benzyloxypyridin-2-yl)methylidene]-6-phenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene plenylmethylidene)-6-[(thien-2-(thien-2-yl)methylidene)-6-[(thien-2-

yl)methylidens|piperazine-2,5-dione 380620-95-1F, 3-[(5-Benzyloxypyridin-2-yl)methylidens|-6-[(2-pyridinyl)methylidens|piperazine-2,5-dione 380620-97-3F, 3,6-Di[(5-benzyloxypyridin-2-yl)methylidens|piperazine-2,5-dione 380621-13-6F 380621-13-6P
RL: PAC (Pharmacological activity), RCT (Reactant), SFM (Synthetic preparation), TRU (Therapeutic use), BIOL (Biological study), PREP (Preparation), RACT (Reactant or reagent), USES (Uses) (preparation of piperazinadiones as anti-angiogenic agents.)
380620-78-0 CAPUIS
2.5-Piperazinadione, 3-[[5-(phenylmethoxy)-2-pyridinyl]methylene]-6-(phenylmethylene)- (9CI) (CA INDEX NAME)

380620-80-4 CAPLUS 2,5-Piperazinedione, 3-((4-hydroxyphenyl)methylene)-6-[[5-(phenylmethoxy)-2-pyridinyl]methylene)- (9CI) (CA INDEX NAME)

380620-82-6 CAPLUS 2,5-Piperazinedicne, 3-[(4-methoxyphenyl)methylene]-6-[(5-(phenylmethoxy)-2-pyridinyl]methylene]-(9Cl) (CA INDEX NAME)

380620-85-9 CAPLUS 2,5-Piperazined(cne, 3-[(4-fluorophenyl)methylene]-6-[[5-(phenylmethoxy)-2-pyridinyl]methylene]- (9CI) (CA INDEX NAME)

380620-95-1 CAPLUS
2,5-Piperazinedicae, 3-[[5-[phenylmethoxy]-2-pyridinyl]methylene]-6-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)

380620-97-3 CAPLUS (9CI) (CA INDEX NAME)

380621-13-6 CAPLUS
2,5-Piperazinedione, 3-[(5-hydroxy-2-pyridinyl)methylene]-6(phenylmethylene)- (9CI) (CA INDEX NAME)

380621-04-5P 380621-05-6F 380621-09-0P 719088-61-6F 719088-71-8F, 3-(5-Benzyloxypyridin-2-yluethylene)-6-(4-nitrobensylidene)piperasine-2,5-dione 719088-77-4F, 3-(5-Benzyloxypyridin-2-yluethylene)-6-(2-nitrobensylidene)piperasine-2,5-dione 719088-82-1F, 3-(5-Benzyloxypyridin-2-yluethylene)-6-(2-nitrobensylidene)piperasine-2,5-dione 719088-82-1F, 3-(5-Benzyloxypyridin-2-yluethylene)-6-(3-chlorobensylidene)piperasine-2,5-dione 719088-92-3F, 3-(5-Benzyloxypyridin-2-yluethylene)-6-(3,5-dionethoxybenzylidene)-piperasine-2,5-dionethoxybenzylidene)-piperasine-2,5-dionethoxybenzylidene)-piperasine-2,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidene)-6-(3,5-dionethoxybenzylidenethoxyb

380620-87-1 CAPLOS
2,5-Piperszinedicse, 3-{(4-chlorophenyl)methylene}-6-[(5-(phenylmethoxy)-2-pyridinyl]methylene}- (9Cl) (CA INDEX NAME)

380620-89-3 CAPIUS
2,5-Piperszinedicne, 3-[[4-(phenylmethoxy)phenyl]methylene]-6-[[5-(phenylmethoxy)-2-pyridinyl]methylene]- (CA INDEX NAME)

380620-91-7 CAPLUS
2,5-Piperasinedione, 3-(2-furenylmethylene)-6-[[5-(phenylmethoxy]-2-pyridinyl]methylene]- (9CI) (CA INDEX NAME)

$$\bigcap_{CH} CH \longrightarrow \bigcap_{DH} CH \longrightarrow CH_2-hV$$

380620-93-9 CAPLUS 2,5-Piperazinedione, 3-[[5-(phenylmethoxy)-2-pyridinyl]methylene]-6-(2-thienylmethylene)- (9CI) (CA INDEX NAME)

3-(5-Benzyloxypyridin-2-ylmethylene)-6-(3,4-dichlorobenzylidene)piperazina-2,5-diome 719089-02-85, 3-(5-Benzyloxypyridin-2ylmethylene)-6-(3-hydroxybenzylidene)piperazina-2,5-diome
719089-10-65, 3-(5-Benzyloxypyridin-2-ylmethylene)-6-(3,5dihydroxybenzylidene)-piperazina-2,5-diome
RL: PAC (Pharmacological activity), SPN (Synthetic preparation), THU
(Therapeutic use), BIOL (Biological study), PREF (Preparation), USES
(Uses)
(preparation of piperazinediones as anti-angiogenic agents.)
380621-04-5 CAPLUS
2,5-Piperazinedione, 3-[(5-(acetyloxy)-2-pyridinyl]methylene]-6(phemylmethylene)- (9CI) (CA INDEX NAME)

380621-05-6 CAPLUS
2,5-Piperazinedione, 3-[[5-{benzoyloxy}-2-pyridinyl]methylene]-6[phenylmethylene)- (9CI) (CA INDEX NAME)

380621-09-0 CAPLUS
Carbemic acid, (4-chlorophenyl)-, 6-[[3,6-dicxo-5[phenylmethylens)piperazinylidens]methyl]-3-pyridinyl ester [9CI] (CA
INDEX NAME)

2,5-Piperazinedione, 3-[(5-[(4-methylphenyl) sulfonyl]-2-pyridinyl]methylene]-6-(phenylmethylene)- (9CI) (CA INDEX NAME)

719088-71-8 CAPLUS
2.5-Piperaximedicme, 3-[(4-nitrophenyl)methylene]-6-[[5-(phenylmethoxy)-2-pyridinyl]methylene]- (9CI) (CA INDEX NAME)

Ph-CH2-O

719088-77-4 CAPLUS
2.5-Piperazinedione, 3-((2-nitrophenyl)methylene)-6-[[5-(phenylmethoxy)-2-pyridinyl)methylene]- (9CI) (CA INDEX NAME)

719088-82-1 CAPUS
2.5-Pjperazinediome, 3-[(3-chlorophenyl]methylene]-6-[[5-[phenylmethoxy]-2-pyridinyl]methylene]- (9CI) (CA INDEX NAME)

Ph-CH2-C

719088-87-6 CAPLUS
2,5-Piperazinedione, 3-((3,5-dimethoxyphenyl)methylene)-6-((5-(phenylmethoxy)-2-pyridinyl]methylene)- (9Cl) (CA INDEX NAME)

SOURCE

PUBLI SHER CUMENT TYPE:

CE: Gan to Kagaku Rycho (2004), 31(4), 526-528

CODEN: OTREDY, ISSN: 0388-0584

MENT TYPE: Gen to Kagaku Rychosha

MENT TYPE: Journal: General Review

MAGE: Japanese
A review. All samples for anticancer drug screening were classified

according to their structural features and their structure-activity

relationships were analyzed. Synchetic gymmatatain analogs including JCI:

11788 and JCI: 11786 altered their selectivity for protein kinase

inhibition with the length of a fatty acid chain. Although a new

inhibitor of tubulin depolymm., JCI: 11578, displayed a high correlation

to known tubulin binders, novel inhibitors of tubulin polymerization, JCI:

4.

JCI: 11675 and JCI: 11676, exhibited poor correlations to tubulin binders.
JCI: 11670 and JCI: 11676, exhibited topoiscnerase I selectively and appear
to belong to a new family of topoiscnerase inhibitors. They are expected
to be important key compds. for structure-activity relation anal. as well
as new lead compds. for anticancer drugs.
748804-27-5, JCI: 1158.
RL: RMA (Drug mechanism of action); PAC (Pharmacological activity); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
[structure-activity relationship anal. for antitumor agent)
748804-27-5 CAPIUS

Tatricture-activity relationship and for antitumor agent)
748804-27-5 CAPLUS
2.5-Piperszinedione, 3-[[5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4yllmethylene)-6-(phenylmethylene)-(9CI) (CA INDEX NAME)

FUBLISER: Lippincott Williams & Wilking DOCUMENT TYPE: Lippincott Williams & Wilking DOCUMENT TYPE: Journal Language: Longuish AB Recent reports suggest that elevated levels of plasminogen activator inhibitor (PAI)-1 may contribute to tumor progression. We have recently shown that antibodies to PAI-1 block the invasive and migratory potential of human fibrosarucan cells and suppress angiogenesis in vitro. Here we report the in vitro evaluation of a low-mol.-weight modulator of PAI-1, MES967, on invasion, migration and angiogenesis. MES967, a diketopiparasine, dose-dependently inhibited the activity of human and murrhs PAI-1, towards urckinase planulangen activator (uPA), with ICSO values of 800 nM and 8.3 MM, resp. This was confirmed by SDS-PAGE, revealing that NES967 inhibited complex formation between PAI-1 and uPA.

719088-92-3 CAPLUS
2,5-Piperazinedione, 3-([3,4-dichlorophenyl)wethylene]-6-([5-(phenylmethoxyl-2-pyridinyl)wethylene]- (9CI) (CA INDEX NAME)

719089-02-8 CAPLUS
2,5-Piperasinedione, 3-{(3-hydroxyphenyl)methylene}-6-{[5-{phenylmethoxy}-2-pyridinyl}methylene}- {9Cl} (CA INDEX NAME)

719089-10-8 CAPLUS
2,5-Piperszinedicne, 3-[(3,5-dihydroxyphenyl)methylene)-6-[[5-[phenylmethoxy)-2-pyridinyl]methylene)- (9Cl) (CA INDEX NAME)

L7 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
2004:006614 CAPLUS
DOCUMENT NUMBER:
141:218132
TITLE:
5CHUCTURE-activity relationshi
AUTHOR(S):
COEFORATE SOURCE:
Institute of Moiscular and Cel 141:218132 Structure-activity relationship analysis Hayakawa, Yoichi Institute of Molecular and Cellular Biosciences, University of Tokyo, Bunkyo-ku, Tokyo, 113-0032, Japan

This suppression may be caused by XR5967 promoting insertion of the reactive center loop within PAI-1. XR5967 dose-dependently inhibited the invasion of human Hin0s0 fibrosarcoma cells through Matrigel. Their invasion was reduced by 578 (p.0.001) at 5 pM. HI1080 cell migration was inhibited in a similar manner, indicating that PAI-1 may play an addhl. role in invasion, which is distinct to its role in the regulation of proteolysis. The potential of XR5967 to inhibit the invasion/migration of human endothelial cells was investigated in an in vitro model of anglogenesis. In this model XR5967 reduced tubble formation by 774 at 5 pM (pc0.001), highlighting a crucial role for PAI-1 in anglogenesis. These data stress the importance of a balanced proteolysis in the processes of invasion, migration and anglogenesis. Our results support the clin. Findings and indicate that modulation of PAI-1 activity, with low-mol.-weight inhibitor of PAI-1 activity, may be of therapeutic benefit for the treatment of cancer.

686938 26-0 in Section of the control o

● HC1

REFERENCE COUNT: THERE ARE 22 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 38 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPTRICET 2005 ACS on STN
2003:1097385 CAPLUS
140:54529
Streptcoayoes alb genes for albonoursin biosynthesis and method of preparing dikeotpiperazine derivatives with transpenic bacteria Condry, Nuriel; Genet. Roger; Lautru, Sylvie; Pernodet, Jean Luo Commissariat a 1'Energie Atomique, Fr.; Centre National de la Recherche Scientifique CHRS Fr. Demande, 53 pp.
CODEN: FRYEBL
Patent

INVENTOR (S):

PATENT ASSIGNER(S):

DOCUMENT TYPE: Patent French

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE FR 2841260 FR 2841260 A1 B1 20031226 FR 2002-7728 20020621

CA 2490517 WO 2004000879 20031231 20031231 CA 2003-2490517 WO 2003-FR1651

Fig. 1870.: PX 2003-728 A 20030521
The sequences of S. noursei genes alba, alba, albc, and albb involved in albonoursin biosynthesis as well as the encoded protein sequences are disclosed. These genes may be expressed in other heateria to produce these proteins. Alternatively, the transgenic bacteria may be used to convert amino acids to dikecopiperarine derive. Thus, S. lividans expressing the alba-C genes (Albb seems to be involved in dikecopiperarine transport) converted Phe and Leu to albonoursin, and Trp to the analogous dikecopiperarine derivative 637744-26-49
RL. RPM (Biosynthetic preparation), BIOL (Biological study), PREP (Preparation)
[streptomyces alb genes for albonoursin biosynthesis and method of preparing dikecopiperarine derivs. with transgenic bacteria)
637744-26-4 CAPUIS
2.5-7iperazinedione, 3-(HH-imidazol-4-ylmethylene)-6-(phenylmethylene)-(9CI) (CA INDEX NAME)

REFERENCE COUNT:

AUTHOR (S) :

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2005 ACS on SIN
ACCESSION NUMBER:
DOCUMENT NUMBER:
11014015
1111E:
1111E

conversion Kanzaki, Hiroshi; Ikeda, Banri; Nitoda, Teruhiko Laboratory of Bioresources Chemistry, Faculty of Agriculture, Okayama University, Okayama, 700-0530,

Japan Actinomycetologica (2003), 17(1), 1-5 CODEN: ACTIF4, ISSN: 0914-5918 Society for Actinomycetes Japan Journal

PIDIT STEP

DOCUMENT TYPE: LANGUAGE:

enzymes of dehydro cyclic dipeptides
Kanzaki, Hiroshi; Yanagisawa, Satchiro; Akazawa,
Kazumi; Ikeda, Banri; Moricoto, Atsushi; Nitoda,
Teruhiko
Graduate School of Natural Science and Technology,
Okayama University, Japan
Tennen Yuki Kagabutsu Toromkai Koen Yoshishu (2001),
43rd, 1-5
CODEN: TYKYDS
Nippon Kagakkai
Journal; General Review
Japanese

CORPORATE SOURCE:

SOURCE:

PUBLI SHER:

CUMENT TYPE:

LISEE: Nippon Kagakkai
MENT TYPE: Journal; General Review
UNAGE: University of the Control of th

L7 ANSWER # OF 38 CAPLUS COPTRIGHT 2005 ACS on STN
ACCESSION NUMBER:
2003:139083 CAPLUS
DOCUMENT NUMBER:
139:145715
Happing of the epitope of a monoclonal antibody
protecting plasminogen activator inhibitor-1 against
inactivating agents

OTHER SCURCE(S): CASREACT 140:40915

AB An effective method was established for preparing the potent cell cycle inhibitor dehydrophenylahistin by a combination of chemical recemization of partially purified (1)-phenylahistin and enzysic conversion of (-)-phenylahistin by the cell-free extract of Streptcoyces albulus KO-23, an albonoursin-producing actinosycete. This method enables conversion of (+)-phenylahistin, which is present in the culture of aspergillus ustus BSC-903 and is not transformed by the Streptcoyces enzyme, to dehydrophenylahistin.

135125-37-56

EL: BMF (Bioindustrial manufacture), BIOL (Biological study), FREP (Preparation)

(production of dehydrophenylahistin by a combination of chemical raccellation

and Streptcoyces enzyme-catalyzed dehydrogenation)

EN 35125-77-6 CAPIUS

2. 5-Piperaminedione, 3-[5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4-yllmethylene)-6-(phenylmethylene)-, (32,62)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

507485-39-4P RL: IMF (Industrial manufacture), SPN (Synthetic preparation), FREP (Preparation)

(production of dehydrophenylahistin by a combination of chemical racemization

mization
and Streptomyces enzyme-catalyzed dehydrogenation)
507465-39-4 CAPUNS
2.5-Piperazinedione. 3-{[5-(1,1-dimethyl-2-propenyl)-1E-imidazol-4yllmathylene]-6-(phenylmathylene)-, (3Z,6E)- (9CI) (CA INDEX NAME)

metry as shown.

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 38 ACCESSION NUMBER: DOCUMENT NUMBER:

US COPYRIGHT 2005 ACS on STN 2003:612948 CAPLUS 140:198105 Production of bioactive compounds by biosynthetic

AUTHOR (S): Bodker, Julie S.; Wind, Troels; Jensen, Jan K.; Hansen, Martin; Pedersen, Katrine E.; Andreasen, Peter

A. Laboratory of Cellular Protein Science, Department of Molecular Biology, University of Aarhus, Aarhus, 8000 CORPORATE SOURCE:

Molecular Biology, University of Aarhus, Aarhus, C. Den. European Journal of Biochemistry (2003), 270(8), 1672-1679 SOURCE:

CODEN: EJBCAI; ISSN: 0014-2956 Blackwell Publishing Ltd.

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

BLISHER: Blackwell Publishing Ltd.

KUMENT TYPE: Journal

MUGUAGE: Buglish

Plasminogen activator inhibitor-1 (PAI-1) belongs to the serpin family of

serine proteinase inhibitors. Serpine inhibit their target proteinases by

an ester bond being formed between the active site serine of the

proteinase and the PI residue of the reactive center loop (RCL) of the

serpin, followed by insertion of the RCL into P-sheet A of the

serpin, Concomitantly, there are conformational changes in the flexible

joint region lateral to P-sheet A. We have now, by site-directed

mutagenesis, mapped the epitope for a monolonal antibody, which protects

the inhibitory activity of PAI-1 against inactivation by a variety of

segunts acting on P-sheet A and the flexible joint region. Curiously,

the epitope is localised in a-helix C and the loop connecting

a-helix I and P-strand 5A, on the side of PAI-1 apposite to

P-sheet A and distantly from the flexible joint region. By

combination of site-directed mutagenesis and antibody protection against

an inactivating organo-chemical ligand, we were able to identify a residue

involved in conferring the antibody-induced comformational change from the

epitope to the rest of the mol. We have thus provided evidence for

commitcation between secondary structural elements not previously known

to interact in serpins.

174766-49-5. XESI18

R: BSU (Biological study, unclassified), BIOL (Biological study)

(XESI18, Mab-1 protection of PAI-1 against mapping of epitope of

manoclomal antibody protecting plasminogen activator inhibitor-1

against inactivating agents)

174766-49-5 CAPLUS

2,5-71perszinedicne, 3-{[5-[2-(dimethylemino) ethyl] thio}-2
thienyllmethyleme)-6-{(phenylmethyleme)-monoclometal antibody-monoclometal antibody-monoclometal-monoclometal-monoclometal-monoclometal-monoclometal-monoclom

1/3/05-157-15 CAFWS
2,5-Piperszinedione, 3-[[5-[[2-(dimethylemino]ethyl]thio]-2thienyl]methylene)-6-(phenylmethylene)-, monohydrochloride, (3Z,6Z)- (9C1)
(CA INDEX IMME)

THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2005 ACS OD STN ACCESSION NUMBER: 2003:11190 CAPLUS DOCUMENT NUMBER: 138:300224

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

A novel potent cell cycle inhibitor dehydrophenylehistim: Enzymatic synthesis and inhibitory activity toward sea urchin embryo Kanzaki, Biroshi; Yanagisawa, Satohiro, Kanah, Kaneo, Bitoda, Teruhiko Laboratory of Biorescurces Chemistry, Faculty of Agricultre, Chayman Huiversity, Okayman, 700-8530, Japan Journal of Antibiotics (2002), 55(12), 1042-1047 CODEN; JANTAJ, ISSN: 0021-8820 Japan Antibiotics Research Association Journal English

A novel dehydrogenated cyclic dipeptide named as dehydrophenylahistin

(APLH) (I. II) was effectively prepared from a fungal matabolice

(g)-phenylahistin by an ensymic conversion catalyzed by a cell-free
extract of Streptowgees albulus Ko-33, an albomoursin-producing actinomycete.

APLH exhibited > 1000 times as high inhibitory activity toward the
first cleavage of sea urchin embryos as phenylahistin, which has been
reported to be a cell cycle inhibitor, and > 10,000 as high as
albomoursin, indicating that APLH is a promising anticancer drugs.

351325-37-69, (2)-Dehydrophenylahistin 507485-39-45,

(E)-Dehydrophenylahistin

RL: PRP (Properties), SPN (Synthetic preparation), PREP (Preparation)
(preparation of novel cell cycle inhibitor dehydrophenylahistin from fungal
matabolite)

3,55-74-6 CAPLUS

2,5-74peraxinedione, 3-[[5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4yl]mathylene]-6-(phenylmathylene)-, (32,62)- (9C1) (CA INDEX NAME)

Double bond geometry as shown.

pyridinyl)propoxy]phenyl]methylene]-, (3Z,6Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown

501942-31-0 CAPLUS 2,5-Piperszinedione, 3-[{4-{3-{3-pyridinyl}propoxy]phenyl}pechylene]-6-{2-thiazolylnethylene}-, (32,62)- (9Cl) (CA INDEX NAME)

501942-33-2 CAPUNS 2,5-Piperaxinadiome, 3-(phenylmethylene)-6-([5-[3-(3-pyridinyl)propoxy]-2-pyridinyl)methylene|-, (32.62)- (SCI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 38 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR(S): CORPORATE SOURCE:

CAPLUS COPTRIGHT 2005 ACS on STN 2002:581841 CAPLUS 137:277922 Production of novel bioactive compounds by cyclic disperide dehydrogenase Kanzaki, Hiroshi Grad. Sch. of Mat. Sci. & Technol., Ckayama Univ., Oakayama, 700-8530, Japan

507485-39-4 CAPLUS 2,5-Piperazinedione, J-[[5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4-yllmethylene)-6-(phenylmethylene)-, (3Z,6E)- (9CI) (CA INDEX EMBE)

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 38 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR (S)

CORPORATE SOURCE:

SOURCE:

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
AB Several

ANSWER 10 OF 38 CAPLUS COFFRIGHT 2005 ACS on STM
SSIGN NUMBER: 3002:585058 CAPLUS
SSIGN NUMBER: 3002:585058 CAPLUS
E: Novel Inhibitors of Plasminogen Activator Inhibitor-1:
Development of New Templates From Diketopiperaxines
(DR(5): Wang, Showming, Golec, Julian, Miller, Warren,
Milutinovic, Sandras Polkes, Adrian, Williams,
Susannah, Brooks, Teresa, Hardman, Kevin; Charlton,
Peter, Wren, Stephen, Spencer, John
ORATE SOURCE: Department of Medicinal Chemistry, Yemova Ltd.,
Slough, Berkshire, Sli 4ML, UK
(CE: Biocorganic & Medicinal Chemistry, Letters (2002),
12(17), 2157-2370
CODEN: BMCLES, ISSN: 0960-894X
ISSEE: Elsevier Science Ltd.
MEMT TYPE: Journal
JAMBE: CARREACT 138:231267
Several isoquinoline-based templates were identified from the studies of
the conformational effects of the diktopiperaxine structures for PAI-1
Inhibition. Moderate to good activity was retained with the elimination
of unattractive characteristics in the diktopiperaxine template.
301942-29-65 501942-31-05 501942-33-2P
RL: PAC (Pharmacological activity) SPM Synthetic preparation), TEU
(Therspeutic use), SIGL (Biological study), FREP (Preparation), USES
(preparation and structure-activity relationship of diktopiperazines as

(preparation and structure-activity relationship of diketopiperazines as novel inhibitors of plasminogen activator inhibitor-1) 501942-29-6 CAPLUS 2,5-Piperazinadione, 3-(2-pyridinylmethylene)-6-[[4-[3-(3-

SOURCE: Baiosaiensu to Indasutori (2002), 60(7), 454-457
CODEN: BIDESE, ISSN: 0914-8981
PUBLISHER: Baioindasutori Kyckai
DOUMENT TYPE: Journal; General Review
Japanese
BA a review on enzymic preparation of a novel bioactive compound
dehydrophenylahistin with strong cell division-inhibiting activity by
dehydrogenation of phenylahistin, a secondary metabolite derived from
Aspergillus ustus, using albonoursin biosynthesis enzymes from
Streptomyces albulus. Possible application of dehydrophenylahistin to
tumor chemotherapy is also discussed.

IT 351325-37-69
RI: BPN (Biosynthetic preparation)

351325-37-69
RI: BFN (Biosynthetic preparation), PAC (Pharmacological activity), BIOL (Biological study), PEP (Preparation) (production of novel bioactive compound dehydrophenylahistin with cell division-inhibiting activity by cyclic dipeptide dehydrogenase) 351325-37-6 CAPUNS 2.5-Piperazinadione, 3-[[5-(1,1-dimethyl-2-propenyl)-H-imidazol-4-yl]methylene)-6-(phenylmethylene)-, (3Z,6Z)- (9CI) (CA INDEX NAME)

ACCESSION NUMBER:

ANSWER 12 OF 38 CAPLUS COPYRIGHT 2005 ACS ON STN
SSION NUMBER: 2002:575581 CAPLUS
EST NUMBER: 39:147428
Characterization and comparative evaluation of a novel
PAI-1 inhibitor TITLE:

AUTHOR (S):

PAI-1 inhibitor Gils, Ann, Stassen, Jean-Marie; Nar, Herbert; Kley, Joerg T., Wienen, Wolfgang; Ries, Uwe J., Declerck, Paul J. Laboratory for Pharmaceutical Biology and Phytopharmacology, Faculty of Pharmaceutical Sciences, Eatholieke Universiteit Lauven, Louvain, B-3000, Belg. Thrombosis and Hammostasis (2002), 88(1), 137-143 CODEM: TREADO; ISSN: 0340-6245 Schattauer OmbH CORPORATE SOURCE

SOURCE:

PUBLISHER

DOCUMENT TYPE: LANGUAGE:

ACMEN: Innaury 1002: UNIVERSELLED TO THE PRIMARY PROPERTY.

JOURNAL WARDS: Schatchauer Ombit
MINT TYPE: Journal
WARDS: Schatchauer Delawinopen activator and urckinase-type plasminopen activator in plasma, is a well established risk factor in thrombotic diseases. Reduction of active PAI-1 levels way lead to a decreased tendency of thrombosis. Compds. that can suppress pharmacol. active PAI-1 levels are therefore commisdered as putative drugs. In the present study, we describe the PAI-1 neutralizing properties and mechanism of a newly selected compound (i.e. fendess!, EP139) in comparison to four previously reported compound (i.e. fendess!, EP139) in comparison to four previously reported compound (i.e. AR-ROZP953YX, XR1853, XR1851) and the peptide TVASS) using different assays. The inhibitory effect of these compds. on active PAI-1 was analyzed by a plasmin-coupled chromogenic assay (Croaset t-PAI), direct chromogenic assays (t-PA, u-PA) and quantification of complex formation by ELISA, SDS-PAGE and surface plasman resonance. Comparative

evaluation of the obtained ICSO values reveals large differences [i.e. ICSO of 15 MM (HP129) vs. >1000 MM (MR5118) determined at 37° using SDS-PAGE; between the compds. studied. Importantly, the relative potency of the various ecoupds. is also dependent on the method used (10 to 170-fold differences in ICSO values). Characterization of the PAI-1 forms (i.e. active, num-reactive cond substrate) generated upon inactivation reveals that the newly described compound HP129 induces a unique pathway (i.e. active to num-reactive conversion via substrate-babwing intermediate) of inactivation compared to the other compds. Taken together, these data strongly suggest that the various compds. at through different mechanisms. In addition, the results stress the necessity for a careful selection of the method used for the evaluation of PAI-1 inhibitors, preferably requiring a panel of screening methods.

174766-49-5, MR5118

EL. IMA (Drug bechanism of action), PAC (Pharmacological activity), THU (Therapoutic use), BIOL (Biological study), USES (Uses) (characterization and comparative evaluation of a novel PAI-1 inhibitor)

174764-49-5 CAPLUS

iministor)
174764-89-5 CAPLUS
2,5-Piperminedione, 3-[[5-([2-(dimethylamino)ethyl]thio]-2thiemyl methylamel-6-(phenylmethylamin), monchydrochloride, (3Z,6Z)- (9CI)
(CA INDER IMME)

Double bond geometry as shown

• HC1

THERE ARE 50 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 13 OF 38 CAPLUS COPPRIGHT 2005 ACS OR STM

ACCESSION NUMBER: 1002:525518 CAPLUS

137:277821 Chemical information-guided enzymatic synthesis of bioactive compounds

AUTHOR (S): CREPORATE SOURCE: SOURCE: OR SOURC

PUBLISHER: Nippon Nogel Kagakkai

DOUMENT TYPE: Journal, General Review

LANGUAGE: Journal, General Review

LANGUAGE: A review on chemical information-guided enzymic synthesis of dehydro cyclic

dipeptides with cycotoxic activity, discussing databases and information

systems in natural science, dehydro cyclic dipeptide albonoures in

biosynthesis system in Streptosyces albulus XO23, bioconversion of cyclic

dipeptides to dehydro derive, using albonoures in biosynthesis system and

their cell division-inhibiting activity, and preparation of

dehydrophenylahistin with higher cell division-inhibiting activity.

If 351325-37-68

PL. BDN Biographatic preparation), BCL (Biolegical authorusphassifich).

RL: BPN (Biosynthetic preparation); BSU (Biological etudy, unclassified);

(CA INDEX NAME)

Double bond geometry as shown

• HC1

REFERENCE COUNT:

THERE ARE 45 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
114:37627
Preparation of piperazinediones as antitumor agents
TITLE:
TITLE:
Preparation of piperazinediones as antitumor agents
Teng. Che-Mingi Wang, Hui-Peng, Li, Eric I, C, Lee,
On Ohb, Jih-Hwa, Chem, Huei-Ting; Pan, Ya-Bing; Chem,
Ya-Lan
Adpharma, Inc., Taiwan
PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE:
DATE:

Patent

DOCUMENT TYPE:

PAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

									:		APPL	ICAT	ION :	NO.		D.	ATE		
							-									-			
	WO	2001	0951	858		A2		2001	1220		WO 2	001-	US14	721		2	0010	508	
	WO	2001	0951	858		A3		2002	0321										
		w:	AE.	AG,	AL,	AM,	AT.	AU.	AZ.	BA.	BB.	BG.	BR.	BY.	BZ.	CA.	CH.	CN.	
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	Ю	2002	0053	173		A		2002	1213		NO 2	002-	5373				0021		
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										1	US 2	000-	5672	71		A1 2	0000	509	
											RO 2	001-1	US14'	721	1	2	0010	508	
THE	S	URCE	(5)	t		MAR	PAT	136:	3762	,									

BIGL (Biological study): PREF (Preparation)
(chemical information-guided enzymic synthesis of bioactive compds.;
forusing an preparation of dehydro cyclic dipeptides with cytotaxic activity)
351325-37-6 CAPLUS

2.5-Piperazinadione, 3-[[5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4-yl]methylene]-6-(phenylmethylene)-, (3Z,6Z)- (9CI) (CA INDEX HAME)

Double bond geometry as shown.

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR (S)

ANSWER 14 OF 38 CAPLUS COFFRIGHT 2005 ACS on STM

ESSIGN NUMBER:

WHENT NUMBER:

137:212721

The role of \$\beta\$-strand 5A of plasminogen activator inhibitor-1 in regulation of ite latency transition and inhibitory activity by virromectin

Jensen, Signs, Kirkegaard, Towe, Pedersen, Katrine E., Busse, Martal Preissnarr, Klaus T., Eodenburg, Kees W., Andreasen, Peter A.

PORATE SOURCE:

PORATE SOURCE:

RCE:

Biochimics et Biophysica 0c. Dem.

LISHER:

BINT TYPE:

WHENT TYPE:

UNDER:

BISSIE Elsevier Science B.V.

Journal

JOURNAL SOURCE:

Biglish

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

LISHER: Elsevier Science B.V.

MENT TYPE: Journal

MADE: Helpitah

Plasminogen activator inhibitor-1 (PAI-1) is a potential target for
anti-thrombotic and anti-cancer therapy. It circulates in plasma in a
complex with vitromectin (VW). We have studied blochem, mechanisms for
PAI-1 neutralization and its modulation by VN, using site-directed

mutagenesis and limited proteolysis. We demonstrate that VN, besides
delaying conversion of PAI-1 to the inactive latent form, also protects

PAI-1 against cold- and detergent-induced substrate behavior and
counteracts conversion of PAI-1 to inert forms by certain amplipathic
organochem, compds. VN protection against cold- and detergent-induced
substrate behavior is associated with inhibition of the proteolytic
susceptibility of \$\beta\$-strand \$\SA\$. Alanine substitution of a lysine
residue placed centrally in \$\beta\$-strand \$\SA\$ implied a VN-induced
acceleration of latency transition, instead of the normal delay. This
substitution not only protects \$\Bar{PAI}\$-1 against neutralization, but also
counteracts VN-induced protection against neutralization. Re-conclude
that \$\Bar{PAI}\$-14 against neutralization of \$\Bar{PAI}\$-1

Complex Systems

**Co

that P-Strand Sa plays a crucial role in VN-regulation of PAI-1 activity.

174765-49-5, XE5118
RI: BSU (Biological study, unclassified), BIOL (Biological study) (vitromectin counteracts conversion of plasminogen activator inhibitor-1 to inert forms by organochem. compds.)

174766-49-5 CAPUIS
2.5-Piperazinaddome, 3-([5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene)-6-(phenylmethylene)-, monohydrochloride, (32,62)- (9CI)

The title compds. [I; A = H, CHRAED or CRAED, Z = R3OArB (wherein B = CHRC or CRC; Ar = heteroaryl; R3 = H, elkyl; aryl, etc.); R1, R2 = H, CGRd, CORRd. CGRAE, or CSGAE, CARGHE, or SOAGH, Ra Re = H, elkyl; aryl, etc.); useful in treating cancer, were prepared Thus, reacting 1.4-diacetylpiperasine-2.5-dione with 5-bensyloxypyridin-2-ylformaldebyled in the presence of ELIN in IMF followed by reaction of the resulting 1-acetyl-3-([5-bennyloxypyridin-2-yllmathylidine]piperasine-2.5-dione with PhCHO in the presence of ELIN in IMF afforded the title compound II. Compds II were tested gainst a panel of 60 different IMI human tumor cell lines. The meet potent compound I exhibited OISO of 40-4 M for all 60 cell lines, with OISO of 40-6 M for 9 cell lines. 380620-97-3P

380620-97-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological etudy); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of piperaxinedicmes as antitumor agents)
380620-97-3 CAPLUS
25-Piperaxinedicme, 3,6-bis{[5-(phenylmethoxy)-2-pyridinyl]methylene](9CI) (CA INDEX NAME)

380620-78-0F 380620-80-4F 380620-82-6F 380620-85-9F 380620-87-1F 380620-89-3P 380620-91-7F 380620-93-9F 380620-95-1P 380621-07-8P 380621-09-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); FREP (Preparation); USES

(Uses)
(preparation of piperazinediones as antitumor agents)
380640-78-0 CAPLUS
2,5-Piperazinedione, 3-[(5-(phenylmethoxy)-2-pyridinyl]methylene)-6(phenylmethylene)- (9CI) (CA INDEX NAME)

380620-80-4 CAPLUS 2.5-Piperazizadicas, 3-[(4-hydroxyphenyl)nethylene]-6-[[5-(phenylmethoxy)-2-pyridnyl]nethylene]- (9CI) (CA INDEX NAME)

380620-82-6 CAPLUS 2,5-P;perazinadium, 3-{(4-methoxyphenyl)methylene}-6-[(5-(phenylmethoxy)-2-pyridinyl]methylene}- (9CI) (CA INDEX NAME)

380620-85-9 CAPLUS
2,5-Piperaxinadione, 3-{(4-fluorophenyl)methylene)-6-{(5-(phenylmethoxy)-2-pyridinyllmethylene)- (9Cl) (CA INDEX NAME)

380620-87-1 CAPLUS 2,5-Piperasinedicne, 3-[(4-chlorophenyl)methylene]-6-[[5-(phenylmethoxy)-2-pyridinyl]methylene]- (9CI) (CA INDEX NAME)

380621-04-5 CAPLUS
2.5-Piperazinedione, 3-[[5-{acetyloxy}-2-pyridinyl]methylene]-6[phenylmethylene]- (9CI) (CA INDEX NAME)

380621-05-6 CAPLUS

2.5-Piperazinedione, 3-[[5-(benzoyloxy)-2-pyridinyl]methylene]-6-(phenylmethylene)- (9CI) (CA INDEX NAME)

380621-07-8 CAPLUS
2,5-Piperszinedione, 3-[[5-[[(4-methylphenyl)sulfomyl]oxy]-2pyridinyl]methylene]-6-[phenylmethylene)- (9CI) (CA INDEX NAME)

380621-09-0 CAPLUS Carbanic acid, (4-chlorophenyl)-, 6-[[3,6-dicxo-5-(phenylmathylene)piperazinylidene)mathyl]-3-pyridinyl ester (9CI) (CA INDEX NAMES)

380620-89-3 CAPLUS
2,5-Piperazinedione, 3-{{4-{phenylmethoxy}phenyl|methylene}-6-{{5-{phenylmethoxy}-2-pyridinyl|methylene}-6-{{5-

380620-91-7 CAPLUS 2.5-Piperezinedicae, 3-(2-furanylmethylene)-6-[[5-(phenylmethoxy)-2-pyridinyl]methylenel- (9CI) (CA INDEX NAME)

2.5-Piperazinedione, 3-{[5-(phenylmethoxy)-2-pyridinyl]methylene}-6-(2-thienylmethylene)- (9CI) (CA INDEX NAME)

380620-95-1 CAPLUS
2,5-Piperazinedione, 3-{{5-(phenylmethoxy)-2-pyridinyl|methylene}-6-{2-pyridinylmethylene}- (9CI) (CA INDEX NAME)

380621-13-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); RACT (preparation of piperazinediones as antitumor agents)
380621-13-6 CAPLUS
2,5-Piperazinedione, 3-[(5-hydroxy-2-pyridinyl)methylene)-6(phenylmethylene)- (9CI) (CA INDEX NAME)

RN CN

L7 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2011:674625 CAPLUS
DOCUMENT NUMBER: 136:85797
Synthesis and in vitro evaluation of a series of discopipersule inhibitors of plassinagen activator inhibitors.

AUTEOR(S): Post Rose, N. B., Schal, S., Golec, J., Faint, B., Brooks, T.; Charlton, P.

CORPORATE SOURCE: Bioorganic & Medicinal Chemistry Letters (2001), 11(19), 2589-2599 CODEN: BMCLES; ISSN: 0960-894X
PUBLISHER: DOCUMENT TYPE: Journal English

DOCUMENT TYPE: Journal English

English

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

• HC1

171887-61-99 174766-35-99 174766-36-09 174766-37-19 174766-41-79 174849-93-59 174849-93-79 174849-96-89 174849-98-09 174850-04-59 386212-63-19 386212-64-29 386212-65-39

386212-65-3P
RL: BSU (Biological study, unclassified), SPN (Synthetic preparation);
BIOL (Biological study); PREF (Preparation)
(preparation and evaluation of diketopiperazines as inhibitors of
plassinogen activator inhibitor-1)
171887-61-9 CAPUIS
2.5-Piperazinedione, 3-([5-[2-(dimethylamino)ethoxy]-2-thienyl]methylene]6-(phenylmethylene)-, (3Z,6Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-35-9 CAPLUS
2,5-Pipernzinedicne, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thiemyl]methylamel-6-[(4-methylphamyl)methylamel-, (32,62)-(9CI) (CARDEX LARLE)

Double bond geometry as shown.

174766-36-0 CAPLUS
2,5-Piperazinedicne, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2thienyl]aethylene]-6-[(4-methoxyphenyl)methylene]-, (32,62)- (9CI) (CA
INDEX NAME)

174849-95-7 CAPLUS
2,5-Piperaginedione, 3-[(3-chlorophenyl)methylene]-6-[[5-[[2-(dimethylamino)ethyl)thio)-2-thienyl]methylene]-, (32,62)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174849-96-8 CAPLUS
2,5-Piperazinedicne, 3-[(2-bromophenyl)methylene]-6-[[5-([2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-, (3Z,6Z)- (9CI) (CA INDEY NAME)

Double bond geometry as shown.

174849-98-0 CAPLUS
Benzonitrile, 4-{(Z)-{(5Z)-5-{[5-{[2-{dimethylamino}]ethyl]thio}-2-thienyl]methylene]-3,6-dioxopiperazinylidene]methyl]- {9CI} (CA INDEX NAME)

Double bond geometry as shown.

Double bond geometry as shown.

174766-37-1 CAPLUS
Benzoic acid, 4-[(Z)-((SZ)-5-[(5-{[2-(dimethylemino)ethyl]thio]-2-thiemyl]methylene)-3,6-dioxopiperazinylidene]methyl]-, methyl ester (9CI) (CA INDEX NAME) RN CN

Double bond geometry as shown.

174766-41-7 CAPLUS
2-thiophenecarboxamide, N-[4-[(2)-[(52)-5-[(5-[(2-(dimethylenino)ethyl]thio]-2-thienyl]methylene]-3,6-dioxopiperasinylidene]methyl]phenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174849-93-5 CAPLUS

2.5-Piperazinedione, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thiemyl]methylene]-6-[[4-(dimethylamino)phenyl]methylene]-, (3Z,6Z]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174850-04-5 CAPLUS
2,5-Piperarinedione, 3-[(4-bromophenyl)methylene]-6-[[5-[[2-(dimethylenino)ethyl]thio]-2-thienyl]methylene]-, (3Z,6Z)-(9CI) (CAINDEX MRMEN)

Double bond geometry as shown.

386212-63-1 CAPLUS
Benzamido, N-{4-{(Z)-{(5Z)-5-{[5-{{2-{(dimethylamino)ethyl]thio}-2-thienyl]methylene}-3,6-dioxopiperazinylidene}methyl]phenyl]- (9CI) (CA INDEX RAME)

Double bond geometry as shown.

386212-64-2 CAPLUS
2,5-Piperazinedicue, 3-{[5-[2-(diethylamino)ethyl}thio]-2thienyllmethylenej-6-{phenylmethylenej-, (32,62)- (9CI) (CA INDEX NAME)

386212-65-3 CAPLUS
2.5-Pipermrinedicne, 3-{{5-{{2-{dimethylamino}ethyl}sulfinyl}-2-thienyl}mothylene}-6-{phenylmothylene}-, {32,62}- {9Cl} (CA INDEX NAME)

Double bond geometry as shown.

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

ANSWER 17 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN 2001:545688 CAPLUS 135:127218

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Cell division inhibitors and process for producing the

Same Arrasani Ranch, Kaneo, Yangisawa, Satohiro, Mitoda, Teruhiko, Akazawa, Kazumi Mippon Steel Corp., Japan, Nippon Steel Chemical Co., Ltd
PCT Int. Appl., 47 pp.
CODEN: PIXYD2
Patent INVENTOR (S) :

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT	NO.			KIN	D	DATE			APPI	LICAT	ION	NO.		D.	ATE	
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WO	2001	0532	90		A1		2001	0726		WO 2	2000-	JP68	07		2	0000	929
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CR,	CU,	cz,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	Œ,	ŒD,	GE,	ŒĦ,	Œſ,	ER,
		ĦŪ,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,
		w,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MY,	MZ.	NO,	NZ.	PL,	PT,	RO,	RU,
		SD,	SE,	SG,	SI,	SK,	SL,	ŤJ,	TM,	TR,	TT,	TŻ,	UA,	UG,	US,	υz,	VN,
		YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	IJ,	TM				
	RW:	GΞ,	GM,	Æ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	Z₩,	AT,	BE,	CH,	CY,
		DΕ,	DK,	ES,	FI,	FR,	æ,	GR,	ΙE,	IT,	w,	MC,	ML,	PT,	SE,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	QΝ,	G₩,	ML,	MR,	NE,	SN,	TD,	TG			
CA	2403	790			AA		2001	0726		CA 2	2000-	2403	790		2	0000	9 29
	2000															0000	
BR	2000	0170	67		A		2002	1022		BR 2	2000-	1706	7		2	0000	9 29
EP	1264	831			A1		2002	1211		EP 2	3000-	9630	11		2	0000	929
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	Œ₽,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
							RO,										
	5199														2	0000	929
ZA	2002	0065	76		A		2003	0512								0020	
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										MO 3	1000-	JP68	07	,	7 2	0000	9 29

R SOURCE(S): MARPAT 135:127218 W0 2000-JP6807 W 20000929
Disclosed are cell division inhibitors containing as the active ingredient various dehydrodiketopiperazines such as dehydrophenylahistin or analogs thereof and dehydropenases and a process for producing the same.

171887-16-4P 351325-38-7P

PRI

REFERENCE COUNT:

L7 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2001:318521 CAPLUS

DOCUMENT NUMBER: TITLE:

PLUS COPYRIGHT 2005 ACS on STN
2001:318511 CAPUS
135:10431 CAPUS
135:10417 Rydrophobic area in the flexible joint
region of plasminogen activator inhibitor-1, defined
with fluorescent activity-neutralizing ligands.
Ligand-induced serpin polymerization
Egelund. Rikke; Einholm. Anja P., Pedersen, Katrine
E., Nielsen, Rasmus W., Christensen, Anni, Deinum,
Johanna; Andraasen. Peter A.
Laboratory of Cellular Protein Science, Department of
Molecular and Structural Biology, Aarhus University,
Aarhus, 8000, Den.
Journal of Biological Chemistry (2001), 276(16),
13077-13086
CONDEN: JBCHAS; ISSN: 0021-9258
American Society for Biochemistry and Molecular
Biology
Journal

AUTHOR (S) :

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

MENT TYPE: Journal

RAGE: English

We have characterized the neutralization of the inhibitory activity of the
serpin plasminogen activator inhibitor: (PAI-1) by a number of structurally
distinct organo-chems, including compds, with environment-sensitive
spectroscopic properties. In contrast to latent and reactive
center-cleaved PAI-1 and PAI-1 in complex with urukinase-type plasminogen
activator (uPA), active PAI-1 strongly increased the fluorescence of the
PAI-1-neutralizing compds. 1-anilinonaphthalne-8-sulfonic acid and
4,4'-dianilino-1,1'-bismaphthyl-5,5'-disulfonic acid. The fluorescence
increase could be competed by all tested non-fluorescent neutralizers,
indicating that all neutralizers bind to a common hydrophobic area
preferentially accessible in active PAI-1. Activity neutralization
proceeded through two consecutive steps as follows: first step is
conversion to forms displaying substrate behavior toward uPA, and second
step is to forms inart to uPA. With scus neutralizers, the second step
was associated with PAI-1 polymerization Vitrometrin reduced the
spublishity to

step is to forms inert to uPA. With some neutralizers, the second step was associated with PAI-1 polymerization. Vitromectin reduced the ceptibility to
the neutralizers. Changes in sensitivity to activity neutralization by point mutations were compatible with the various neutralizers having overlapping, but not identical, binding sites in the region around e-helizes D and E and B-strand 1A, known to act as a flexible joint when B-sheet A opens and the reactive center loop inserts as B-strand 4A during reaction with target proteinases. The defined binding area may be a target for development of compds. for neutralizing PAI-1 in cancer and cardiovascular diseases. 174756-49-5, XRS118

HL: BAC (Biological activity or effector, except adverse), BFR (Biological process), BSU (Biological study, unclassified), BIOL (Biological study), VECC (Process)

(neutralizing ligand; identification of a regulatory hydrophobic area in the flexible joint region of plasmingom activator inhibitor-1, defined with fluorescent activity-neutralizing ligands and ligand-induced septim polymerization)

174766-49-5 CARUS
2,5-Piperstinadions, 3-[5-[6]-(dimethylamino)ethyllthio]-2-thienyllmethylene)-6-(phenylmethylene)-, monohydrochloride, (3Z,6Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RL: BAC (Biological activity or effector, except adverse), BPH (Biosynthetic preparation), BSU (Biological study, unclassified), THU (Therapeutic use), BIOL (Biological study), FREP (Preparation), USES (Uses)

(dehydrogenation of cyclophenylalanylhistidyl using Streptomyces albulus enzyme) 171867-16-4 CAPLUS

2,5-Piperazinedicae, 3-(1H-imidazol-4-ylmethylene)-6-(phenylmethylene)-, (3Z,6Z)- (9CI) (CA INDEX MAME)

351325-38-7 CAPLUS

2,5-Piperazinedione, 3-(1H-imidazol-4-ylmethylene)-6-(phenylmethylene)-, (3Z,6E)- (9CI) (CA INDEX NAME)

351325-37-6P EL: BAC (Biological activity or effector, except adverse), BPN (Biosynthetic preparation): BSU (Biological study, unclassified): THU (Therapeutic use): BIOL (Biological study): FREP (Preparation): USES

(Therapeutic user) size in the control of phenylahistin using Streptomyces albulus enzyme) (dehydrogenation of phenylahistin using Streptomyces albulus enzyme) 35:1235-37-6 CAPLUS 3,5-Piperazinedione, 3-([5-(1,1-dimethyl-2-propenyl)-1H-imidazol-4-yl]methylene]-6-(phenylmethylene)-, (3Z,6Z)-(9CI) (CA INDEY NAME)

• HCl

THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L7 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2000:433951 CAPLUS DOCUMENT NUMBER: 134:56642

TITLE:

SOURCE:

PURLISHER:

OTHER SOURCE(S):

CESSION NUMBER: 3000-423951 CAPLUS

CHENT NUMBER: 134:56642

134:56642

134:56642

PORATE SOURCE: New conjugated systems derived from piperaxina-2.5-dicms

Asiri, Abdullah Mchamed

Abdul-Asiz University, Jeddah, 2141, Saudi Arabia

MCC: Molecules (Electronic Publication) (3000), 5(3), 529-636

CEDEN: MOLEFW, ISSN: 1420-3049

UML: http://www.mdpi.org/molecules/papers/50300629.pdf

Molecules (Diversity Preservation International Journal), (online computer file)

EMBORT TYPE: Journal, (online computer file)

EMBORT TYPE: Journal, (online computer file)

EMBORT SOURCE(S): CASEACT 134:55642

The preparation of accomplidene and both sym and unsym. bisarylidene derives of piperaxine-2.5-dione is described. The use of 1,4-diametylpiperaxina-2,5-dione makes it possible to prepare unsym. bisarylidense. The introduction of a dicyancesthylene molecy into the para position of one of the arylidene groups gave a remarkable despening in the color of the resulting compds.

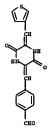
313931-85-86

EL RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)

(preparation of mono- and bisarylidenepiperazinediones)

313951-85-86 CAPLUS

Benzaldebyde, 4-1(3.6-dioxo-5-(3-thienylmethylene)piperazinylidene]methyll
(9CI) (CA INDEX NAME)



IT 313951-61-4P 313951-84-7F 313951-86-9P
EL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of mono- and bisarylidenepiperazinediones)
EN 313951-61-4 CAPIUS
CN 2,5-Piperazinedione, 3,6-bis(3-thienylmethylene) - (9CI) (CA INDEX NAME)

313951-84-7 CAPLUS
2,5-Piperazinedione, 3-[[4-(dimethylamino)phenyl]methylene]-6-(3-thienylmethylene)-[901] (CA INDEX NAME)

RN 313951-86-9 CAPLUS

105975-15-3 CAPLUS
2,5-Piperazinedicae, 3,6-bis(2-thienylmethylene) - (9CI) (CA INDEX NAME)

261952-63-0 CAPLUS 2,5-Piperazinedicae, 3-(2-pyridinylmethylene)-6-(2-thienylmethylene)-(SCI) (CA INDEX NAME)

261952-64-1 CAPLUS
2.5-Piperazinedicne, 3-[(3,4-dimethoxyphenyl)methylene]-6-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)

261952-65-2 CAPLUS
2,5-Piperasinedione, 3-[(3,5-dimethoxyphenyl)methylene]-6-(2-pyridinylmethylene)- (9Cl) (CA INDEX NAME)

Propanedinitrile, {{4-{{3,6-dicxo-5-(3-thienylmethylene)piperasinylidene}a ethyl]phenyl]uschylene}- {9Cl} (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 11 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2005 ACS on STW
ACCESSIGN NUMBER: 2000; 3997 CAPLUS
122:23706; 1212:23706; 1212:23706; 122:23706

CODEN: BMCLER; ISSN: 0960-894Y

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTRES SOURCE(S): CASHEACT 122:237061

B An efficient one-pot synthesis of a 61-membered combinatorial chemical

library of piperaxine-2,5-diones was accomplished. Results of

combinatorial synthesis, purification, anal., and biol. evaluation are

described.

1 7670-69-11 105975-15-31 261952-65-30

261952-66-42 261992-66-52 261952-69-69

261952-67-42 261992-68-52 261952-69-59

261952-70-95 261992-70-09

El. BAC (Biological activity or effector, except adverse), BSU (Biological)

Z61952-70-9F Z61952-71-OP
RL: BaC (Biological activity or effector, except adverse), BSU (Biological study), unclassified), SPN (Synthetic preparation), BIOL (Biological study), PREF (Preparation)
(solution-phase combinatorial synthesis and cytotoxicity of piperazinediones)
RN 7670-69-1 CAPIUS
CN 2,5-Piperazinedione, 3,6-bis(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)

261952-66-3 CAPLUS
2,5-Piperazinedione, 3-(2-pyridinylmethylene)-6-[(2,4,6-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

261952-67-4 CAPLUS
2,5-Piperazinedicne, 3-(2-pyridinylmethylene)-6-[(3,4,5-trimethoxyphenyl)methylene)- (9CI) (CA INDEX NAME)

261952-68-5 CAPLUS
2,5-Piperazinedicue, 3-[(],4-dimethoxyphenyl]methylene]-6-(2-thienylmethylene)- (9CI) (CA INDEX NAME)

261952-69-6 CAPLUS
2,5-Piperarinedione, 3-[(3,5-dimethoxyphenyl)methylene]-6-(2-thienylmethylene)- (9CI) (CA INDEX NAME)

261952-70-9 CAPLUS
2.5-Piperasinedicae, 3-(2-thienylmathylene)-6-[(2,4,6-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

261952-71-0 CAPLUS
2.5-Piperazinedione, 3-(2-thienylmethylene)-6-[(3.4.5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

REFERENCE COUNT : THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSIGN NUMBER: 1999;268690 CAPLUS
DOCUMENT NUMBER: 1319:99:126
TITLE: Transition-State Stabilization by a Mammalian
Reductive Dehalogenase
AUTHOR(S): Knumbima, Munetaka; Priedman, Jessica E.; Rokita,
Strayen E.

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

HOR(S):

Kunishima, Munetaka, Friedman, Jessica E., Rokita, Steven E.

PORATE SCURCE:

Department of Chemistry and Biochemistry, University of Maryland, College Park, MD, 20742, USA Journal of the American Chemical Society (1999), 121(19), 4722-4723

CODEN: JACSAT, ISSN: 0002-7863

LISHER:

MEDIT TYPE:

Journal

GUAGE:

Beginsh

ES SCURCE(S):

CARFEACT 131:99171

Mammals have the ability to promote reductive deiodination of the hormone thyroxine (3-[4-(4-hydroxy-3-(3-diiodophenoxy)-3,5-diiodophenyl] alanine), its metabolites, and related intermediates including jodotyrosine. A series of selemensyness found in tissues such as brown fat, liver, kidney, and the central nervous system are responsible for the reduction and deiodination of thyroxine and the comeomitant oxidation of glutathions. In contrast, an iodide salvage enzyme in the thyroid mediates reduction and deiodination of iodo- and diiodotyrosine with comsumption of NADPE.

Little mechanistic data has yet to be gathered on these nammalian reactions and we now report compelling evidence for a key intermediate proposed in catalysis of iodotyrosine deiodinase. A series of pyridenyl amino acids were prepared and shown to be reversible and competitive inhibitors of substrate diiodotyrosine turnover under standard assay 230648-38-IP 230648-46-9F 230648-46-1P

comditions.
230648-38-19 230648-44-9F 230648-46-1P
RL: RCT (Reactant), SNn (Synthetic preparation), PREP (Preparation), RACT
(Reactant or reagent)
(transition-state stabilization by iodotyrosine deiodinase)

DOCUMENT TYPE:

CMADE: Dournal

CUACE: English

Elevated levels of plasminogen activator inhibitor 1 (PAI-1) have been associated with the occurrence of thrombotic disease, and inhibition of PAI-1 activity in vivo resulted in enhanced thrombolysis and a reduction in recoclusion. Besides monoclonal antibodies and peptides, no suitable agents that are able to block PAI-1 activity are available to date. The present study was designed to test the interaction between a nonantibody, nompeptide, diketopiperaxine-based inhibitor of PAI-1, XES118, and PAI-1 and to assess the effect of XES118 on PAI-1 activity in vitro and on in vivo thrombolysis and thrombus growth in an exptl. thrombosis model in rabbits. The binding site of XES118 on the PAI-1 who was studied by competitive binding expts. with mapped anti-PAI-1 woncolonal antibodies by use of surface plasmon resonance expts. XES118 selectively and competitively inhibited binding of the PAI-1 which impred antibody CLB-120, indicating that binding of XES118 to PAI-1 takes place at the area between amino acids 110 and 145 of the PAI-1 which is known to be involved with the binding of PAI-1 to tissue plasminogen activator (TPAI). Includation of plasma or platelet release with KES118 resulted in a dose-dependent inhibition of PAI-1 activity. Systemic infusion of XES118 induced a significant reduction in plasma PAI-1 activity levels from 23.7 to 10.9 IU/mL. Administration of XES18 resulted in a significant school increase in endogenous thrombolysis compared with the control. Thrombus growth in rabbits receiving both XES118 and TTPA was significant reduction in plasma PAI-1 activity levels. Furthermore, XES118 promotes endogenous thrombolysis and inhibits thrombus accretion and is the first noneptide compound with significant anti-PAI-1 activity or effector, except adverse), BFR (Biological process), BSU (Biological activity or effector, except adverse), BFR (Biological process), BSU (Biological activity or effector, except adverse), BFR (Biological process), SSU (Biological activity or eff

● HC1

L7 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1997:272695 CAPLUS

127:579

XR5119, a novel modulator of plasminogen activator inhibitor-1 (PAI-1), increases endogenous tPA activity

230648-38-1 CAPLUS
2,5-Piperatinedione, 3,6-bis[(6-methoxy-3-pyridinyl)methylene]- (9CI) (CA
LUDRE MARK)

230648-44-9 CAPLUS
2.5-Piperszinedicne, 3.6-bis((1-ethyl-1,6-dihydro-6-cxo-3-pyridinyl)methylene)- (9CI) (CA INDEX NAME)

230646-46-1 CAPLUS
2,5-Piperazinedicae, 3,6-bis[[1,6-dihydro-1-(1-methylethyl)-6-oxo-3-pyridinyl]methylme)- (9C1) (CA INDEX NAME)

THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 22 OF 38 CAPLUS ACCESSION NUMBER: 1997

DOCUMENT NUMBER:

AUTHOR(S):

PLUS COPYRIGHT 2005 ACS on STE
1997:563777 CAPLUS
127:214885
Movel low-molecular-weight inhibitor of PAI-1 (XES118)
promotes endogenous fibrinolysis and reduces
postthroubolysis thrombus growth in rabbits
Friederich, Philip W., Levi, Marcel, Blemond, Bart J.,
Charlton, Peter, Templeton, David, Van Zonneveld,
Anton Jan, Bevan, Paul, Pannekoek, Hans, Ten Cate, Jan
W.

W. Center for Hemostasis, Thrombosis, Atherosclerosis, Inflammation Research, Academic Medical Center, University of Amsterdam, Amsterdam, 1105 AZ, Neth. Circulation (1997), 96(3), 916-921 CODEN: CIRCAZ, ISSN: 0009-7322 American Heart Association CORPORATE SOURCE:

SOURCE:

DIBLISHED.

AUTHOR (S) :

in the rat Charlton, P., Paint, R., Barnes, C., Bent, F., Folkes, A., Templeton, D., Mackie, I., Machin, S., Bevan, P. Xenova Limited, Slough, UK Fibrinolysis & Proteolysis (1997), 11(1), 51-56 CODEN: PRDEEP Churchill Livingstone

CORPORATE SOURCE:

PUBLI SHER

DUBLISHER: Churchill Livingstone
DOCUMENT TYPE: Journal
LNIGUAGE: Deplish

AB X85118, a diketopiperazine-based low mol. weight inhibitor of plasminogen
activator inhibitor-1 (PAI-1) activity, was studied ex vivo and in vivo in
the rat to determine whether inhibition of PAI-1 activity resulted in increased
fibrinolysis and protection against throubus formation. X85118 reversed
the inhibitory effects of human PAI-1 against tissue-type plasminogen
activator (tAB), in an vitro anidolytic assay (S2531) with an IC50 value
of 3.5 M/G0.18 µM (n-7). This activity was confirmed in in vitro
fibrinolysis assays against both human and rat PAI-1 and, following i.v.
administration to rate, X85118 (1-5 mg/kg) dose-dependently increased clot
lysis in an ex vivo dilute blood clot lysis time (BECT) assay. At 5 mg/kg,
X85118 (noreased clot lysis by 41;1.64 (no.9, Pc.0.01) reduced the time to
vehicle comtrol. In a rat model of arterial throubosis, i.v. infusion of
X85118 (0.5 mg/kg/min for 20 min) significantly prolonged the time to
throubus formation from 21.2.2.5 min in the vehicle-treated group to
37.045.4 min (n=10 per group, Pc.0.01). Furthermore, infusion of X85118
was associated with a significant decrease in plasma PAI-1 activity and a
significant increase in plasma tPA activity. Thus, in the rat, X85118
enhanced fibrinolysis ex vivo, increased endogenous tPA activity, and
attenuated arterial throubus formation following elec. injury. As
elevated PAI-1 has been proposed as a risk factor in throuboit disease,
inhibition of PAI-1 activity may have utility in the treatment of
throuboembolic disease.

IT 174766-49-5, XR 5118
EI: RAC (Biological activity or effector, except adverse), BSU (Biological
study, unclassified), TBU (Therapeutic use), BIOL (Biological study), USES
(Uses)
(increase of endogenous tPA activity in antithrombotic and fibrinolytic
mechanism of PAI-1 modulator X851189

(Uses)
(increase of endogenous tPA activity in antithrombotic and fibrinolytic mechanism of PAI-1 modulator XE5118)
174766-49-5 CAPLUS
2,5-Piperasimadione, 3-[{5-{[2-(dimethylamino)ethyl]thio}-2-thienyl]methylene)-6-(phenylmethylene)-, monohydrochloride, (3Z,6Z)- (9CI) (CA INDEX RAME)

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L7 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1996:534871 CAPLUS

125:195689
Preparation of piperazine-2,5-dione derivatives as unltidrug resistance unchilators
Ashworth, Philip Anthony; Hunjan, Sukhjit; Pretswell,
Ian Andrew; Ryder, Ekmish; Brocchini, Stephen James
Yenova Linted, UX
PCT Int. Appl., 97 pp.
CODEN: PIXMO2
Patent
English
2 DOCUMENT NUMBER: TITLE: INVENTOR (S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA										APPL	ICAT	ION :	NO.		D	ATE		
WO	9620																	
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● HC1

PAGE 1-B

180598-06-5 CAPLUS
Benzamida, N-[4-[2-(3,4-dihydro-6,7-dimethoxy-2(1H)-isequinoliny])ethyl]phenyl]-4-[(4-methyl-3,6-dioxo-5-(3-pyridinylmathylene)piperasinylidene]methyl]-, dihydrochloride, (Z,Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

AB Title compds. [I; RI = (un)substituted Ph, heterocyclyl, (cyclo)alkyl, etc.; R2 = H, alkyl, COZH, Ph, etc.; l of R3,R4 = COMEZ(CH2)qR; R = tetrahydrotscquinolino group O; B5,R6 = H or alkoxy; RSR6 = CCH2O; Z = bond or 1,4-phenylene; q = 1-4, dashed line = optional bondl were prepared Thus, IC50 for doxorubicin + title compound II against AR 1.0 cell proliferation was 10-3 that for doxorubicin alone.

II 180538-01-07; 180538-06-5F 1805398-27-9F 1805398-24-9P 180539-24-7F 1805398-25-8F 1805398-26-9P 1805398-27-0F 1805398-27-0P R05398-27-0F 1805398-27-0P R05398-27-0F 1805398-27-0P R05398-27-0F 1805398-27-0P R05398-27-0F 1805398-27-0P R05398-27-0P R05398-27-0P

Double bond geometry as shown.

●2 HC1

PAGE 1-B

180598-07-6 CAPLUS
Bennamids, N-[4-[2-(3,4-dihydro-6,7-dimethoxy-2(1H)isoquinolinyl) ethyl]phenyl]-4-[(4-methyl-3,6-dioxo-5-(3-thienylmachylens)piperasinylidens]methyl]-, monohydrochloride, (2,2)(9CI) (CA INDEX NAME)

● HC1

PAGE 1-B

180598-08-7 CAPLUS

Benzamide, N-(4-(2-(3,4-dihydro-6,7-dimethoxy-2(1H)isoquinolimy) ethyl]phenyl]-3-[[4-methyl-3,6-dioxo-5-(2thienylmethylene)piperazinylidene)methyl]-, (2,2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

PAGE 1-A

PAGE 1-B

180598-24-7 CAPLUS

Benzamide, N-[4-[2-(3,4-dihydro-6,7-dimethoxy-2(1E)-isoquinoliny] ethyl]phenyl]-4-[[5-(2-furanylmethylene)-4-methyl-3,6-dicxopiperazinylidene]methyl]-, (2,2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 180598-09-0 CAPLUS
CN Benzemide, N-[4-[2-{3,4-dihydro-6,7-dimethoxy-2(1H)isoquinolinyl)ethyllphenyll-3-[[4-methyl-3,6-dioxo-5-{3thienylmethylene]piperazinylidene]methyl]-, (Z,Z)- (9CI) (CA INDEY NAME)

PAGE 1-B

RN 180598-12-3 CAPLUS CN Benzaride, N-[4-(2-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)=64byl]phenyl]-3-[(5-(3-furanylmethylene)-4-methyl-3,6-dicxopiperazinylidene]methyl]-, (Z,Z)- (9CI) (CA INDEY NAME)

Double bond geometry as shown.

PAGE 1-B

180598-25-9 CAPLUS

Benzemide, N-[4-[2-(2,4-dihydro-6,7-dimethoxy-2(1H)isoquinolinyl)ethyl]phenyl]-4-[[5-(2-furanylmethylene)-4-methyl-3,6dioxopiperazinylidene]methyl]-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX
IMME)

Double bond geometry as shown.

• HC1

PAGE 1-B

RN 180598-26-9 CAPLUS

PAGE 1-B

Double bond geometry as shown.

PAGE 1-B

180598-27-0 CAPLUS

Bensamide, N-[4-[2-(3,4-dihydro-6,7-dimethoxy-2(1H)isoquinoliny|| ethyl|pheny||-3-{[5-(2-furany|methylene)-4-methyl-3,6dioxopiperazinylidene|methyl]-, monohydrochloride, (Z,Z)- {9Cl} (CA INDEX
INDEX)

Double bond geometry as shown.

• HC1

PAGE 1-B

L7 ANSWER 25 OF 38 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2005 ACS on STN

1996:188887 CAPLUS

124:261069
Preparation of 3-(phenyl, 2-thienyl, and
2-furanyl)methylene-2,5-dioxopipersexine derivatives as
inhibitors of plasminogen activator inhibitor
Bryans. Justin Stephen; Folkes, Adrian John, Lathan,
Christopher John
Kenova Ltd., UK
PCT Int. Appl., 74 pp.
CODEN: PIXMO2
Patent
English
T: 1 INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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180598-28-1 CAPLUS

Bensanide, N. [4-{2-(3,4-dihydro-6,7-dimethoxy-2{1H}}isoquinolimy] ethyl] phenyl] -4-[{4-methyl-5-({1-methyl-1H-pyrrol-3yl]methylene}-3,6-diexopiperazinylidene]methyl}-, (Z,Z)- (9CI) (CA INDEX
RAME)

Double bond geometry as shown.

PAGE 1-B

RN 180598-29-2 CAPLUS

CN Benzanide, N-[4-[2-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)ethyl]phenyl]-3-[(4-methyl-5-[(1-methyl-1H-pyrrol-3-yl)methylene}-3,6-dioxopiperazinylidene|methyl]-, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

EP	760812			A1	19970312	EP	1995-919549		19950524
	R: DE	, ES,	FR,	GB, IT	, NL				
J₽	1050042	5		T2	19980113	JΡ	1995-530151		19950524
US	5750530			A	19980512	US	1996-750020		19961217
PRIORIT	Y APPLN.	INFO	. :			GB	1994-10387	A	19940524
						WO	1995-GB1180	W	19950524
OTHER S	OURCE (S)	1		MARPAT	124:261069				

GI

Diketopiperazine derivs. [I, Y = CR9:CR10, O. S, R7, R8, R9, R10 = H, NO2, n = 0, 1 or 2, m = an integer of 1 to 6; each R6, which may be the same or different, is a Cl-6 alkyl group; X = group selected from [I] (uni substituted fh. [2] a heterocyclic ring selected from [II] (uni substituted fh. [2] a heterocyclic ring selected from furan, thiophene, pyridine, quincline and optionally Cl-6 alkyl; substituted indole, [3] Cl-6 alkyl, 2,3-methylenedioxyphenyl, or 3,4-methylenedioxyphenyl, or (4) (CR3)pZ, wherein p = 0 or an integer of 1 to 4; Z = a cyclohacyl group substituted by one or more Cl-65 alkyl] and the salts and setzer thereof, useful for the treatment of hemostatic disorders, thrembotic disorders, inflamation, and tumor growth and metastasis, are prepared Thus, 1.13 g 4-(2-dimethyleninockylythio)benzaldeh yde was added to a suspension of 1.14 g 1-acetyl-3-benzylidans-2,5-piperazinacione and 1.52 Gc22003 in DMF and the resulting ulxuru was heated at 90° for 1 h. treated with H3O, and stirred overnight, and filtered to give, after recrystum, of the collected solid from McG/CHC12, the title compound (132, 62)-11, R = H in 63% yield. The RC1 salt of latter compound and (32, 62)-11, RC1 (R = Cl) in vitro showed ICS0 of 10.0 and 2.0 JM against plasminogen activator inhibitor.

114766-23-55 174766-33-59 174766-33-59 174766-31-59 17476

El: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TEU (Therapeutic use); BIOL (Biological study); FREP (Preparation); USES (Uses)

(preparation of [(Ph, thienyl, and furanyl)methylene]dicxopiperazine derive.
as inhibitors of plasminogen activator inhibitor}
174768-07-5 CAPUIS
2,5-Piperazinedicne, 3-[4-[2-(dimethylenino)ethyl]thio]phenyl]methylene]6-(3-furanylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-08-6 CAPLUS
2,5-Piperszinedione, 3-[(4-[(2-(dimethylemino)ethyl]thio)phanyl]methyleme)-6-(3-thionylmethyleme)-, (2,2)- (9C1) (CA INDEX NAME)

174766-20-2 CAPLUS
2,5-Piperazinedicae, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]nethylenej-6-(3-thienylmethylenej-, (Z.Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-23-5 CAPLUS

1/4/86-43-5 CARLOS 2,5-Piperazinedione, 3-{[5-{[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-{[4-(trifluoromethyl)phenyl]methylene}-, (2, Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-30-4 CAPLUS
2,5-Piperazinedione, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[[4-nitrophenyl]methylene]-, [2,2]- [9CI] (CA INDEX NAME)

Double bond geometry as shown

174766-31-5 CAPLUS
2,5-Fiperaginedione, 3-[[5-[[2-(dimethylemino)ethyl]thio]-2-thienyl]methylene]-6-[[4-(methylthio)phenyl]methylene]-, (Z,Z)- (9CI) (CA IMDEX RAME)

Double bond geometry as shown

174766-32-6 CAPLUS 2,5-9;perazinedicne, 3-{[5-{[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-{[4-(1,1-dimethylethyl)phenyl]methylene]-, (Z,Z)-(9CI) (CA INDEX NAMS)

Double bond geometry as shown.

174766-27-9 CAPLUS
2,5-Piperszinedicne, 3-{[5-{[2-{dimethylemino}ethyl]thio}-2-thiemyl]nebthylene}-, mcmohydrochloride,
(Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

● HC1

174766-28-0 CAPLUS
2,5-Fiperazinedicae, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[[3-(trifluorcmethyl)phenyl]methylene]-, (Z,Z)- (9CI)
(CA INDEX NAME)

Double bond geometry as

174766-29-1 CAPLUS
2,5-Piperazinedicae, 3-{[5-{[2-(dimethylamino)ethyl}thio]-2-thienyl]methylene]-6-{(3-nitrophenyl)methylene]-, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-34-8 CAPLUS
2,5-Piperazinedione, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[(3,3-dimethyloyolohexyl)methylene]-, (Z,Z)- (9CI)(CA INDEX NAME)

Double bond geometry as shown.

174766-35-9 CAPLUS
2,5-Piperazinedione, 3-[[5-[(2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[(4-methylphenyl)methylene]-, (3Z,6Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-36-0 CAPLUS
2,5-Piperazinedione, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[(6-methoxyphenyl)methylene]-, (3Z,6Z)- (9CI) (CA INDEX KAME)

174766-37-1 CAPLUS
Benzoic acid, 4-[(Z)-[(5Z)-5-{[5-([2-(dimethylamino) ethyl] thio]-2-thienyl]methylene|-3,6-dioxopiperazinylidane|methyl|-, methyl ester (9CI)(CA INDEX HAME)

174766-38-2 CAPLUS
2.5-Piperasinedione, 3-[[5-[[2-(dimethylenino)ethyl]thio]-2-thienyl]methylene,6-[[3-methoxy-4-[(4-nitrophenyl)methoxy]phenyl]methylene,-(2,2)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

174766-41-7 CAPLUS
2-Thiophemecarboxamide, N-[4-[(Z)-[(SZ)-5-[[5-[[2-(dimethyl]namio)]ethyl]thio]-3-thienyl]methylene}-3,6-dioxopiperazinylidene]methyl]phenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-47-3 CAPLUS
2.5-Piperazimedicme, 3-([5-{[2-(dimethylamino)ethyl]thio]-4-nitro-2-thienyl]methylene]-6-(phenylmethylene)-, (Z, Z)- (9CI) (CA INDEX NAME)

174766-49-5 CAPLUS
2,5-Piperwrinedicme, 3-{[5-[[2-(dimethylemino)ethyl]thio]-2-thienyl]methylene]-6-(phenylmethylene)-, monohydrochloride, (32,62)- (9CI) (CA INDER NAME)

• HC1

174766-50-8 CAPLUS
2,5-Piperezinedione, 3-[[5-{[2-(dimethylamino)ethyl]thio]-2-thienyllmethylene]-6-[[4-(dimethylamino)phenyl]methylene]-, momohydrochloride, (2, Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-42-8 CAPLUS
2,5-Piperazinedione, 3-{{5-[(2-(dimethylamino)ethyl]thio]-2-thienyl]aethylene]-6-(3-pyridinylmethylene]-, (2,2)- (9CI) (CA INDEX NAME)

nd geometry as shown.

174766-43-9 CAPLUS
2,5-Fiperazinadione, 3-[5-[2-(dimethylamino)ethyl]thio}-2-thienyl]methylene]-6-(2-pyridinylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

174766-44-0 CAPLUS
2,5-Piperazinedicne, 3-{{5-{[2-{dimethylamino}ethyl}thio}-2-thienyl}sethylene|-6-(4-pyridinylmethylene)-, (Z,Z)- (9CI) (CA INDEX KAME)

Double bond geometry as shown.

174766-51-9 CAPLUS
Acetamids, N-[4-[5-[[3-(dimethylamino)ethyl]thio]-2-thienyl]methylenel-3,6-dioxopiperszinylidenelmethyl]phenyl]-, momohydrochloride, (2,2)- (9CI) (CA INDEX NAME)

● HC1

174766-52-0 CAPLUS
2,5-Pipermainedicme, 3-{(2-chlorophenyl)methyleme}-6-[[5-[(2-(dimethylemino)ethyl]thio]-2-thienyl]methyleme}-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown

● HC1

174766-53-1 CAPLUS
2.5-Piperasined(one, 3-{(2-bromophenyl)methylene]-6-[[5-{{2-(dimethylamino)ethyl)thio]-2-thienyl]methylene]-, monohydrochloride, (Z,Z)-(9CI) (CA INDEX HAME)

Double bond geometry as shown

• HC1

174766-54-2 CAPLUS
2.5-Piperwzinediome, 3-[(4-chlorophenyl)methylene]-6-[(5-[{2-(dimathylamino)ethyl)thio]-2-thienyl]methylene]-, memohydrochloride, (Z.Z)- (9CI) (CA INDEX HAME)

Double bond geometry as shown.

• HC1

174766-55-3 CAPLUS
Benzonitrile, 4-[[5-[[2-(dimethylamino)ethyl]thio]-2thienyl]methylene]-3,6-dioxopiperazinylidene]methyl]-, monchydrochloride,
[Z,Z]- (9CI) (CA INDEX NAME)

Double bond geometry as shown

● HC1

174766-56-4 CAPLUS
2,5-Piperazinedione, 3-[(3,4-dichlorophenyl)methylene)-6-[[5-[[2-

174766-59-7 CAPLUS
2,5-Piperazinedione, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylamino, ethyl en)-6-[[4-(phenylmethoxyl phenyl]methylene]-, menohydrochloride, (2, 2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

● RC1

174766-60-0 CAPLUS

174766-60-0 CAPLUS
2,5-Piperazinedione, 3-[[5-([2-(dimethylamino)ethyl]thio]-2-thienyl]methylene|-6-[[3-(phenylmethoxy)phenyl]methylene|-, momnhydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174766-61-1 CAPLUS
2,5-Pipermzinedicme, 3-{(4-bromophenyl)methylene}-6-[[5-{[2-(dimethylenimolethyl]thio]-2-thiemyl]methylene}-, momohydrochloride,
(Z,Z)- (SCI) (CA INDEX MAME)

Double bond geometry as shown.

(dimathylamino)ethyl]thio)-2-thienyl]mathylene)-, momohydrochloride, (2.2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

er:

174766-57-5 CAPLUS

Benzonitrile, 3-[[5-[[5-[[2-(dimethylamino)ethyl]thio]-2-thiemyl]methylene]-3,6-dioxopiperazinylidene]methyl)-, monohydrochloride,
(Z,Z)- [9C1] (CA INDEX NAME)

Double bond geometry as shown

● HCl

174766-58-6 CAPLUS
2,5-Fiperazinedione, 3-(cyclohexylmethylene)-6-[[5-[[2-(dimethylenino)ethyl]thio]-2-thiemyl]methylene]-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

● HC1

174766-63-3 CAPLUS
2,5-Fiperazinadiome, 3-[5-[6-(dimethylamino)hexyl]thio]-2-thienyl]methylene]-6-(phenylmethylene)-, monchydrochloride, (Z,Z)- (9CI)(CA INDEX NAME)

Double bond geometry as shown.

● HC1

174766-64-4 CAPLUS
2,5-Piperazinedicne, 3-[[5-{[2-(dimethylemino)ethyl]thio]-2-furanyl]methylene]-6-(phenylmethylene)-, (2,2)-(9CI) (CA INDEX NAME)

174849-59-3 CAPLUS
2,5-Piperwzinadione, 3-[[4-[(2-[dimethylamino]ethyl]thio]phenyl]methylene]
6-(3-furanylmethylene)-, monohydrochloride, (2,2)- (9CI) (CA INDEY NAME)

• HC1

174949-60-6 CAPLUS
2,5-Piperazinadicae, 3-[(4-((2-(dimethylemino)ethyl)thio]phenyl;methyleme]-6-(3-thienylmethyleme)-, monohydrochloride, (2,2]-(9C1) (CA INDEX NAME)

Double bond geometry as shown.

● HCl

174849-72-0 CAPLUS
2,5-Piperazinedicae, 3-{[5-{[2-(dimethylemino)ethyl)thio}-2-thienyl]methylene]-{-{(di-{trifluorcaethyl)phenyl]methylene}-, memohydrochloride, (2,2)- (9C1) (CA INDEX NAME)

● HC1

174849-75-3 CAPLUS
2,5-Piperazimedione, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thiemyl]methylene|-,-[[3-(trifluorcmathyl)phenyl]methylene|-,-momohydrochloride, (Z,Z)-(9C1) (CA INDEX NAME)

monohydrochloride, (Z,Z) - (9CI) (CA INDEX NAME)

Double bond geometry as shown

● HC1

174849-79-7 CAPLUS 2.5-Piperazined one. 3-([5-{[2-{dimethylamino}ethyl]thio}-2-thienyl]nethylene-6-[{4-(1,1-dimethylethyl)phenyl]methylene}-, monohydrochloride, $\{Z,Z\}$ - (9CI) (CA INDEX NAME)

Double bond geometry as shown

174849-80-0 CAPLUS
2,5-Piperazimedicme, 3-{[5-{[2-(dimethylamino)ethyl]thio}-2-thiemyl]methyleme]-6-{[4-methylphenyl]methyleme]-, monchydrochloride,
[Z,Z]- (9Cl) (CA INDEX NAME)

● BC1

Double bond geometry as shown

■ HC1

174849-76-4 CAPLUS
2.5-Pipersaimedione, 3-[[5-{[2-(dimethylamino)ethyl]thio]-2-thiemyllmethylene]-6-([3-nitrophenyl]methylene]-, momohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

● HC1

174849-77-5 CAPLUS
2,5-Piperazimedione, 3-{[5-{[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-, mcmohydrochloride, (Z,Z)- (9CI) (CA INDEX EAME)

● HC1

174849-78-6 CAPLUS
2.5-Piperaninedicae, 3-[[5-[[2-(dimethylemino)ethyl]thio]-2-thienyl]methylene]-6-[[4-(methylthio)phenyl]methylene]-,

2,5-Piperazinedicne, 3-[{5-[[2-(dimethylamino)ethyl}thio]-2-thienyl]methylene]-6-[(4-mathoxyphenyl)methylene]-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

● HC1

174849-82-2 CAPLUS
Benzoic acid, 4-[[5-[[5-[[2-(dimethylamino)ethyl]thio]-2-thiemyl]methylene].3,6-dioxopiperazinylidene]methyl]-, methyl ester, momohydrochloride, (Z,Z)- (9CI) (CA_INDEX_NAME)

Double bond geometry as shown

• HCl

174849-83-3 CAPIUS
2.5-Piperagined one, 3-([5-[(2-(dimethylamino) ethyl) thio]-2-thiemyl]methyl ene]-6-([3-methoxy-4-((4-nitrophemyl)methoxy) phenyl]methylen e]-, menchydrochloride, (Z.Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174849-81-1 CAPLUS

PAGE 1-B

-NO2

174849-86-6 CAPLUS
2.5-Piperazined(one, 3-[[5-{[2-(dimethylamino)ethyl]thio]-2-thiemyl]methylene)-6-(3-pyridinylmethylene)-, monohydrochloride, (Z.Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

• HCl

174849-87-7 CAPLUS
2,5-Piperszinedicne, 3-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene)-6-(2-pyridinylmethylene)-, monohydrochloride, (Z,Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

174849-94-6 CAPLUS Acetamide, N-{4-[[5-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-3,6-dioxopiperazinylidene]methyl]phenyl}-, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174849-95-7 CAPLUS
2.5-Piperazinedicne, 3-[(3-chlorophenyl)methylene]-6-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-, (3Z, 5Z)- (9CI) (CA IMDEY NAME)

Double bond geometry as shown.

174849-96-8 CAPLUS
2.5-Piperazinedione, 3-{(2-bromophenyl)methylene]-6-{[5-{[2-{dimethylamino)ethyl]thio]-2-thienyl]methylene]-, (3Z,6Z)- (9CI) (CA INDEY MARK)

Double bond geometry as shown.

● HC1

174849-90-2 CAPLUS
2,5-Fiperazinedicme, 3-{[5-[2-(dimethylemino)ethyl]thio]-4-nitro-2-thienyllmethylene)-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

• HC1

17484-92-4 CAPLUS
2,5-Piperazinedione, 3-[[5-{[2-(dimethylamino)ethyl]thio]-2-thienyl]methylami-6-(phenylmethylami--, (2,2)-(9CI) (CA INDEX NAME)

174849-93-5 CAPLUS
2,5-Piperazinedicme, 3-([5-[[2-(dimethylemino)ethyl]thio]-2-thienyllmethylene]-6-[[4-(dimethylemino)phenyl]methylene]-, (3Z,6Z)- (9CI)
(CA INDEX NAME)

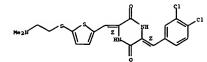
Double bond geometry as shown.

174849-97-9 CAPLUS
2,5-Piperaminedione, 3-[(4-chlorophenyl)methylene]-6-{[5-[(2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-, (2,2)- (9CI) (CA INDEX NAME)

174849-98-0 CAPLUS
Bensonitrile, 4-{{2}-{(52)-5-{[5-{[2-{dimethylemino}ethyl]thio}-2-thienyl]sethylene}-3,6-dioxopiperasinylidene|methyl]- {9CI} (CA INDEX KAME)

Double bond geometry as shown.

174849-99-1 CAPLUS
2,5-Piperazinedione, 3-[(3,4-dichlorophenyl)methylene]-6-[[5-[(2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-, (2,2)- (9C1) (CA INDEX RAME)



174850-00-1 CAPLUS
Benzonitrile, 3-[[5-[[2-(dimethylemino)ethyl]thio]-2-thiemyl]methylenel-3,6-dioxopiperazinylidenelmethyll, (Z,Z)- [9CI] (CAINDEX HAME)

Double bond geometry as shown.

174850-01-2 CAPLUS
2,5-Piperasinedione, 2-(cyclohexylmethylene)-6-[[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-, (2,2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

174650-02-3 CAPLUS
2,5-Piperazinedione, 3-[[5-{[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[[4-(phenylmethoxy)phenyl]methylene]-, (Z,Z)- (9CI)
(CA INDEX MAME)

Double bond geometry as shown.

ACCESSION NUMBER:

ANSWER 26 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN

DSSIGN NUMBER: 1995:994199 CAPLUS

124:55981
E: Preparation of 3,6-bis(benzylidens)piperazine-2,5diones as multidrug resistance modulators

DTOR(S): Bryans, Justin Stephen James

ENT ASSIGNEE(S): Renova Ltd. UK

PCT Int. Appl., 70 pp.
CODEN: PIXED2

MENT TYPE: Patent

LLY ACC. HUM. COUNT: 1

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DESTITEMENT TOPS

PATENT PROPERATION: DOCUMENT NUMBER: TITLE:

INVENTOR (S)

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.				KIN	D	DATE			PPI	LICAT	ION I	NO.		D	ATE		
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WO	9521	B30			A1		1995	0817		70 :	1995 -	GB30	0		1	9950	214
	W:	AM,	AT,	AU.	BB.	BG.	BR.	BY,	CA.	CH.	CN,	cz.	DE.	DK.	EE.	ES.	FI.
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GE)	2286	394			A1		1995	0816		:в	1995 -	2872			1	9950	214
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	5852				Ã		1998				1996-					9961	
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OTHER SOURCE(S): MARPAT 124:55961

Title compds. [I, Ri = OR7 and R2R5 = bond, R1R2 = O and R5 = H,
(un) substituted alkyl, RJ,R6 = (un) substituted Ph, R4 = H. (un) substituted
alkyl, R7 = (un) substituted alkyl) were prepared Title compound II
centration
not given] gave daunorubicin uptake by multidrug resistant BMT6 mouse
mammary carcinoma subline AR 1.0 cells 73.98 that of verapamil at
100104.

1000M.

171722-48-8P 171722-49-9F 171722-50-2P

RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), TEU (Therapoutic use), BIOL (Biological study), PREP (Preparation), USES (Uses) (preparation of 3,6-bis(Denzylidens)piperazine-2,5-dicnes as multidrug resistance wodulators)

171722-48-8 CAPUUS
2,5-Piperariandione, 3-(3-furanylmethylens)-6-[(4-methoxyphenyl)methylens)-1-methyl-, (Z,Z)- (9CI) (CA INDEX NAME)

174850-03-4 CAPLUS
2,5-Pipermainediome, 3-[5-[[2-(dimethylamino)ethyl]thio]-2-thienyl]methylene]-6-[[3-[phenylmethoxy)phenyl]methylene]-, (Z,Z)- (SCI) (CA INDEX MAME)

174850-04-5 CAPLUS
2,5-Pipe razinedicae, 3-{(4-bromophenyl}methylene}-6-{{5-{(2-(dimethylamino)ethyl]thio}-2-thienyl}methylene}-, (3Z,6Z)- (9CI) (CA INDEX NAME)

174850-06-7 CAPLUS
2,5-Piperazinedione, 3-{[5-[[6-(dimethylamino)hexyl]thio]-2-thienyl]methylene]-6-(phenylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

171722-49-9 CAPLUS
2,5-Piperazinadione, 6-[(4-methoxyphenyl)methylene]-1-methyl-3-(2-thienylmethylene)-, (2,2)- (9CI) (CA IMDEX NAME)

171722-50-2 CAPLUS 2,5-Piperazined(one, 1-methyl-3-(phenylmethylene)-6-(2-thienylmethylene)-, (Z,Z)-(92) (CA INDEX NAME)

L7 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
1395:994198 CAPLUS
114:55980
Preparation of piperazinedione-derivative multiple
drug resistance modulators
Brocchinin, Stephen James; Bryans, Justin Stephen;
Latham, Christopher John; Folkes, Adrian John
Yenova Ltd., UK
PCT Int. Appl., 70 pp.
CODES: PIXMO2
PATENT INFORMATION:
1
English
1

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

74 mm			
		APPLICATION NO.	DATE
************		*************	
WO 9521831	A1 19950817	WO 1995-GB301	19950214
W: AM, AT, AU,	BB, BG, BR, BY,	CA, CH, CM, CZ, DE,	DK, EE, ES, FI,
GB, GR, HU,	JP, KE, KG, KP.	KR, KZ, LK, LR, LT,	LU, LV, MD, MG,
MSI, MSI, MY,	ML, MO, MZ, PL,	PT. RO. RU. SD. SE.	SI, SK, TJ, TT,
UA, US			
RW: KB, MW, SD.	SZ, UG, AT. BE.	CH, DE, DK, ES, FR,	GB, GR, IE, IT,
		CP, CG, CI, CM, GA,	
SN, TD, TG		_, _, _, _,	
GB 2286392	A1 19950816	GB 1995-2860	19950214
GB 2286392	B2 19980812		
AU 9516676	A1 19950829	AU 1995-16676	19950214
ZA 9501175	A 19960814	ZA 1995-1175	19950214
US 5861400	A 19990119	US 1996-693169	19961104
PRICRITY APPLN. INFO. :		GB 1994-2805	A 19940214
		WO 1995-GB301	W 19950214
OTHER SOURCE(S)	MARDAT 124 -5508		

B The title compds. [I, the dotted line represents an optimal double bond, R14 = H, Ph-(un)substituted C1-6 alkyl, R15 = H, C1-6 alkyl, R16 = (un)substituted C1-6 alkyl, Y, Y = (un)substituted hetercoyelic ring, (un)substituted Ph. cyclohaxyl, etc.], useful as modulators of multiple drug resistance, are prepared and a 1-containing formulation presented. Thus, (3Z, 62) -3-bennylideme-1,4-dimethyl-6-(1-ter-butoxycarbonyl-3-indolyl)methyleme-2,5-piperaximedione (II) was prepared and demomstrated a potentiation index for doxorubicin of 40 (i.e., IC50 for doxorubicin alone/IC50 for doxorubicin and II) of 40 against EMT6 mouse mammary carrinosa cell line AE 1.0 cells.

TI7122-48-89 T17122-49-99 T17122-50-2P
T17871-89-99 T17871-99-19 T17871-89-99 T17872-99-99 T17871-09-99 T1871-09-99 T17872-00-P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), TRU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Uses)
(preparation of piperaximediome-derivative multiple drug resistance odulators)
N 171722-48-8 CAPLUS
N 2,5-Piperaximediome, 3-(3-furanylmethylene)-6-{(4-methoxyphenyl)methylene}-1-methyl-, (Z,2)- (SCI) (CA INDEX NAME)

Double bond geometry as shown.

2.5-Piperazinedione, 3-[(4-methoxyphenyl)methylene]-1-methyl-6-(2-thienylmethylene)-, (2.Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

171871-87-7 CAPLUS
2.5-Piperasined(one. 1-methyl-3-(phenylmethylene)-6-(3-thienylmethylene)-,
(Z.Z)- (921) (CA INDEX NAME)

Double bond geometry as shown.

171871-89-9 CAPLUS

2,5-Piperazinedione, 3-(2-furanylmethylene)-1,4-dimethyl-6-(phenylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

171871-92-4 CAPLUS

2.5-Piperazinedicne, 3-(3-furanylmathylene)-1,4-dimethyl-6-(phenylmathylene)-, (Z.Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

171722-49-9 CAPLUS
2,5-7ipersinedione, 6-[(4-methoxyphenyl)methylene]-1-methyl-3-(2-thienylmethylene)-, (2,2)- (9CI) (CA INDEX NAME)

171722-50-2 CAPLUS
2.5-Piperazinedione, 1-methyl-3-(phenylmethylene)-6-(2-thienylmethylene)-,
(Z.Z)- (9CI) (CA INDEX NAME)

171871-85-5 CAPLUS
2.5-Piperazinedicae, 6-(3-furanylmethylene)-3-[(4-methoxyphenyl)methylene]-1-methyl-, (Z,Z)- (9CI) (CA INDEX NAME)

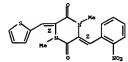
EN 171871-86-6 CAPLUS

171071-93-5 CAPLUS
2,5-Piperazinedione, 1-(phenylmethyl)-6-(phenylmethylene)-3-(4-pyridinylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

171871-94-6 CAPLUS
2,5-Piperazinedicae, 1-(phenylmethyl)-6-(phenylmethylene)-3-(4pyridinylmethylene)-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

● HC1

171871-99-1 CAPLUS 2.5-Piperazinedione, 1.4-dimethyl-3-((2-nitrophenyl)methylene]-6-(2-thienylmethylene)-, (Z.Z)- (9CI) (CA INDEX NAME)



171872-00-7 CAPLUS
2,5-Fiperazinedine, 3-(3-furanylmethylene)-6-{(4-methoxyphenyl)methylene}-1-methyl-4-(phenylmethyl)-, (2,2)- (9CI) (CA INDEX MAME)

Double bond geometry as shown.

L7 ANSWER 28 OF 38 CAPLUS COPYRIGHT 1005 ACS on STM

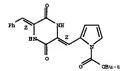
ACCESSION NUMBER: 1995:994197 CAPLUS

DOCUMENT NUMBER: 124:55979

Preparation of piperazinedione-derivative inhibitors of plasminogen activator inhibitor in plasminogen activator inhibitor of plasminogen activator inhibitor processing the procedure of plasminogen activator inhibitor in plasminogen activator inhibitor in plasminogen activator inhibitor in plasminogen activator inhibitor in processing the procedure in processing the processing th

DOCUMENT TYPE: Patent English

PA	TENT	NO.			KIN	D	DATE			APPL	ICAT	I CIN	NO.		D	ATE	
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		æ,	GE,	HU,	J₽,	KΕ,	KG,	KP,	KR,	KZ,	LK,	LR,	LT,	LU,	LV,	MD,	MG.
		MN.	MV.	MX.	NL,	NO.	NZ.	PL,	PT.	RO,	RU.	SD,	SE,	SI,	SK,	TJ,	TT
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	RW:	KE,	MW,	SD,	SZ,	UG,	AT.	BE,	CH,	DE,	DK,	ES,	FR,	Œ,	GR,	IE,	IT.
		LU.	MC.	NL.	PT.	SE.	BF.	BJ.	CP.	CG,	CI.	CM.	GA,	GN,	ML.	MR.	NE.
		SN.	TD.	TG													
GB	2286	395			A1		1995	0816		GB 1	995 -	2874			1	950	214
CB.	2286	395			B2		1998	0826									
CA	2182	877			AA		1995	0817		CA 1	995 -	2182	877		1	950	214
AU	9516	677			A1		1995	0829		AU 1	995 -	1667	7		1	950	214
AU	6931	59			B2		1998	0625									
ZA	9501	180			A		1996	0814		ZA 1	995 -	1180			1	950	214
EP	7450	70			A1		1996	1204		EP 1	995-	9083	14		1	950	214
	R:	DE,	ES,	FR,	GB,	ΙŤ,	NL										



171887-16-4 CAPLUS 2,5-Piperazineddicne, 3-(1H-imidazol-4-ylmethylene)-6-(phenylmethylene)-, (32,62)- (9C1) (CA INDEX NAME)

171887-17-5 CAPLUS
2,5-Fiperazinedione, 3-[(5-methyl-1H-imidazol-4-yl)methylene]-6(phenylmethylene)-, (2,2)- (9C1) (CA INDEX NAME)

171887-26-6 CAPLUS 2.5-Piperazinedicae, 3-[(4-methoxyphenyl)methylene]-6-(2-thienylmethylene)-, (Z,Z)- (SCI) (CA INDEX NAME)

Double bond geometry as shown.

JP 1995-521082 US 1996-693172 GB 1994-2807 WO 1995-GB302 JP 09509157 US 5891877 PRIORITY APPLN, INFO, : OTHER SOURCE(S): MARPAT 124:55979

AB The title compds. [I, El, E2 - (um) substituted naphthyl, (um) substituted (um) saturated heterocyclyl, (um) substituted Yh, (um) substituted yetcl, which have activity as inhibitors of plasminogen activator inhibitor (PAI), are prepared and a I-containing formulation is presented. Thus, (32, 62)-3-benzyl idence for [4-(2-inidazolylethacyl)tensyl/idence]-3,5-piperaxinadione was prepared and demonstrated a [C50 in a chromogenic PAI substrate assay (K. Nilsson, 1987) of 5,0-10.0 PA.

IT 171837-10-85 171867-16-45 171867-17-5p
171837-26-55 171837-27-77 F171837-29-9p
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171837-48-25 171837-48-27 171837-41-5p
171837-48-25 171837-48-27 171837-51-6-6p
171837-51-17 171837-53-35 171837-54-0p
171837-51-17 171837-61-35 171837-65-3p
171837-66-47 171837-61-37 171837-65-3p
171837-77-77 171837-78-47 171837-78-69
171837-83-17 171837-88-0p
171837-83-17 171837-88-0p
171837-89-15 171837-88-05 171837-88-0p
171837-89-15 171837-90-45 171837-88-0p
171838-0-10-05 171837-90-45 171838-20-1p
E1: BAC (Biological activity or effector, except adverse); BSU (Biological study); DEEP (Preparation); TEU (Therapeutic use); BIOL (Biological study); PREF (Preparation); TEU (Therapeutic use); BIOL (Biological study); PREF (Preparation); TEU (Therapeutic use); BIOL (Biological study); PREF (Preparation); TEU (Therapeutic use); BIOL (Biological preparation); DEEP (Preparation); TEU (Therapeutic use); BIOL (Biological preparation); DEEP (Preparation); TEU (Therapeutic use); BIOL (Biological study); PREF (Preparation); TEU (Therapeutic use); BIOL (

Double bond geometry as shown.

171887-27-7 CAPLUS
2,5-Piperszinedione, 3-(3-furanylmethylene)-6-[(4-methoxyphenyl)methylene]-, (2,2)-(9C1) (CA INDEX NAME)

Double bond geometry as shown.

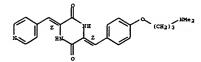
171887-29-9 CAPLUS
1H-Pyrrole-1-carboxylic acid, 2-[[5-[(4-methoxyphenyl)methylene]-3,6-dioxopiperasinylidene]methyl]-, 1,1-dimethylethyl ester, (Z,Z)- (9Cl) (CA INDEX INME)

Double bond geometry as shown.

171887-33-5 CAPLUS
2,5-Piperazinedione, 3-[(2,6-dichlorophenyl)methylene]-6-(3-furanylmethylene)-, (2,Z)- (9CI) (CA INDEX NAME)

171987-40-4 CAPLUS

171897-40-4 CAPLUS
2,5-Piperazinedione, 3-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]-6[4-pyridinylmethylene)-, (2,Z)- (9CI) (CA INDEX NAME)



171887-41-5 CAPLUS
2,5-Piperaxined(one, 3-[[4-(3-(dimethylamine)propoxy]phenyl]methylane)-6-(3-pyridinylmethylane)-, (2,2)- (901) (CA INDEX NAME)

Double bond geometry as shown.

171887-42-6 CAPLUS
2,5-Piperasineddine, 3-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]-6(2-furanylmethylene)-, (2,2)- (901) (CA 18DEX MAME)

Double bond geometry as shown.

171887-43-7 CAPLUS

2.5-Piperaginedione, 3-[[4-[3-(dimethylamino)propoxy)phenyl]methylene]-6-(3-thienylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 171887-44-8 CAPLUS

171887-48-2 CAPLUS
2.5-Piperazinedione, 3-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-6[[5-(methylthio)-2-thienyl]methylene]-, (Z.Z)- (9CI) (CA INDEX NAME)

171887-49-3 CAPUUS 2,5-Piperazinedicne, 3-[[4-([[2-(dimethylamino)ethyl]thio]methyl]phenyl)methylenei-6,-(3-furanylmethylene)-, (2,2)-(SCI) [CA INDEX NAME]

Double bond geometry as shown.

171887-50-6 CAPLUS
2,5-Piperazinedione, 3-[[4-[[[2-(dimethylamino)ethyl]thio)methyl]phenyl]methylene)-6-(3-thienylmethylene)-, (Z,Z)-(SCI) (CA INDEX NAME).

2,5-Piperazinedione, 3-{[4-[3-(dimethylamino)propoxy]phenyl}methylene]-6-(2-thienylmethylene)-, {2,2}- (9Cl) (CA INDEX NAME)

Double bond geometry as shown.

171887-45-9 CAPLUS
2.5-Piperazimedicae. 3-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]-6[3-furanylmethylene]-, (2.2)- (901) (CA INDEX NAME)

Double bond geometry as shown.

171887-46-0 CAPLUS
2.5-Piperazinedione, 3-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-6-(3-furanylmethylene)-, (Z.Z)- [9CI] (CA INDEX NAME)

Double bond geometry as shown.

171887-47-1 CAPLUS
2,5-Piperazinedione, 3-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-6-(3-thienylmethylene), (2,2)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

Acetamide, 2-(dimethylamino)-N-[[4-[[3,6-dioxo-5-[3-thienylmethylene]piperazinylideme]methyl]phenyl]methyl]-, [Z,Z]- [9CI](CA_INDEX_RAME)

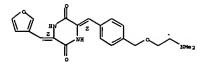
Double bond geometry as shown.

171887-53-9 CAPLUS Acetamide, 2-(dimethylamino)-N-[[4-[[5-(3-furanylmethylene]-3,6-dicxopiperasinylidene]methyl]phenyl]methyl]-, (Z,Z)- (9CI) (CA INDEX RAME)

Double bond geometry as shown.

171887-54-0 CAPLUS
2,5-Piperszinedicze, 2-{[4-[2-(dimethylamino)ethoxy]methyl]phenyl]methyle
nel-6-(3-thienylmethylemel-, (2,2)-(9CI) (CA INDEX NAME)

171887-55-1 CAPLUS
2,5-Piperazinedicne, 3-[[4-[[2-(dimethylamino)ethoxy]methyl]phenyl]methylene]-6-(3-furanylmethylene)-, (2,2)- (9CI) (CA INDEX NAME)



171887-61-9 CAPIUS 2.5-Piperazinaciane, 3-[[5-[2-(dimethylemino)ethoxy]-2-thicnyl]methylenej-6-(phenylmethylene)-, (32,62)- (9CI) (CA INDEX RAMS)

171887-62-0 CAPLUS
2,5-Piperazinedione, 3-([4-(2-(dimethylamino)ethoxy]-2-thienyl]methylene)-6-(phenylmethylene)-, (2,2)-(9CI) (CA INDEX BAME)

171887-63-1 CAPLUS
2,5-Piperazinadione, 3-[[5-[2-(dimethylamino)ethyl]-2-thienyl]methylene]-6(phenylamthylene)-, (2,2)- (9Cl) (CA INDEX RAME)

RN 171887-64-2 CAPLUS

171887-72-2 CAPLUS
2,5-Piperasinedions, 3-{[4-[3-(dimethylamino)propoxy]phenyl]methylene)-6(3-thienylmethylene)-, monohydrochloride, (2,2)- (9CI) (CA INDEY NAME)

● HCl

171887-73-3 CAPLUS
2,5-Piperazineduce, 3-[[4-[3-(dimethylamino)propoxylphenyl)methylene]-6[2-thienylmethylene]-, mcnchydrochloride, (2,2)- (9CI) (CA INDEX RAME)

Double bond geometry as shown.

171887-74-4 CAPLUS
2,5-Piperasinedione, J-[(4-[3-(dimethylamino)propoxy]phenyl]methylene]-6(3-furanylmethylene)-, monohydrochloride, [2,2]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

2.5-Piperexinedione, 3-[[5-{2-[2-(dimethylamino)ethoxy]ethoxy]-2-thienyl]methylane}-6-(phenylmethylane)-, (Z, Z)- (9CI) (CA INDEX HAME)

Double bond geometry as shown.

171887-65-3 CAPLUS
2,5-Piperazinedicne, 3-[[5-([6-(dimethylemino)hexyl]cxy]-2-thienyl|methylene]-6-(phenylmethylene)-, (Z,Z)- [9CI] (CA INDEX NAME)

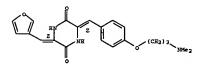
Double bond geometry as shown.

171887-66-4 CAPUUS
2,5-Piperazinadione, 3-{(5-([3-(dimethylamino) ethyl)methylamino]-2-thiemylinebhylamino]-3-(phemylmethylamino), (Z.Z)- (SCI) (CA INDEX NAME)

Double bond geometry as shown.

171887-71-1 CAPLUS
2.5-Piperszinedione, 3-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]-6[3-furanylmethylene]-, menohydrochloride, (Z.Z)- [901] (CA INDEX NAME)

Double bond geometry as shown.



• HCl

171887-76-6 CAPLUS
2,5-Piperszinedione, 3-[[4-[2-[dimethylamino]ethoxy]phenyl]methylene]-6-(3-furany]methylene]-, memohydrochloride, (2,2)- [9CI] (CA INDEX NAME)

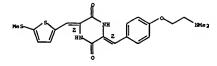
Double bond geometry as shown.

• mai

171887-77-7 CAPLUS
2,5-Piperszinedione, 3-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-6-(3-thienylmethylene)-, monohydrochloride, (2,2)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

171887-78-8 CAPLUS
2,5-Pipermainedione, 3-[[4-(2-(dimethylamino)ethoxy]phenyl]methylene]-6[[5-(mathylthio)-2-thienyl]methylene]-, monohydrochloride, (Z,Z)-(9CI)
(CA INDEX NAME)



171887-84-6 CAPLUS
2.5-Piperazined:one, 3-{{4-{{[2-{dimethylamino} ethyl] thio]methyl] phenyl] methylene)-, monohydrochloride, {2, 2}- {9Cl} (CA INDEX NAME)

● HC1

171887-85-7 CAPLUS
2,5-Fiperazimedione, 3-[(4-[[2-(dimethylamino)ethyl]thio]methyl]phenyl]methylene)-, monohydrochloride, (Z, Z)- (9Cl) (CA INDEX MAME)

ble bond geometry as shown.

171887-86-8 CAPLUS
Acetamide, 2-(dimethylamino) N-[[4-([3,6-dioxo-5-{3-thiemylmethylene)piperazinylidene|methyl]phemyl]methyl}-,
momohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

NAME)

Double bond geometry as shown.

● HC1

171887-91-5 CAPLUS
2,5-Fiperazined(one, 3-[[5-[2-(dimethylamino)ethoxy)-2-thienyl]methylene]-6-(phenylamthylene)-, menchydrochloride, (2,2)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

● HCl

171887-92-6 CAPUNS
2.5-Pjperazimedicme, 3-[[5-[2-(dimethylamino)ethyl]-2-thienyl]methylene]-6-(phenylmethylene)-, momohydrochloride, (Z.Z)- (SCI) (CA INDEX NAME)

171897-93-7 CAPUUS
2,5-Fiperasinedione, 3-([5-([6-(dimethylamino)haxyl]oxyl]-2-thismylleethylame)-6-(phenylamthylame)-, manchydrochloride, (Z,Z)- (9CI)

Double bond geometry as shown.

171887-88-0 CAPLUS
Acetamide, 2-(dimethylemino)-N-[[4-([5-(3-furanylmethyleme)-3,6-dioxopiperazinylideme]methyl]phenyl]methyl]-, monohydrochloride, (Z,Z)-(9C1) (CA INDEX NAME)

● HC1

17:887-89-1 CAPLUS
2,5-Pipermzinedicme, 3-[[4-[[2-(dimethylamino)ethoxy]methyl]phemyl]methyle
nel-6-(3-thiemylmethylene)-, monohydrochloride, (Z,Z)- (9C1) (CA INDEX
RAME)

• HCl

171887-90-4 CAPLUS
2,5-Piperazinedicae, 2-[[4-[(2-(dimethylamino)ethoxy]methyl]phenyl]methyle
nel-6-(3-furanylmethyleme)-, monohydrochloride, (2,2)-(9CI) (CA INDEX

(CA INDEX NAME)

Double bond geometry as shown.

171888-00-9 CAPLUS
2.5-Piperazinedicne, 3-[[4-[3-(dimethylanino)propoxy]phenyl]methylene]-6(4-pyridinylmethylene)-, monohydrochloride, (Z,Z)- (9CI) (CA INDEX NAME)

● HC1

171888-01-0 CAPLUS
2,5-Piperszinediose, 3-[(6-[3-(dimethylamino)propoxy)phanyl]methylene]-6(3-pyridinylmethylene)-, monohydrochloride, (Z,Z)-(SCI) (CA INDEX NAME)

171888-24-7 CAPLUS
2,5-Piperazinedione, 3-[(2,5-dichloro-3-thienyl)methylene]-6-(phenylmethylene)-, (Z,Z)- (9CI) (CA INDEX NAME)

able bond geometry as shown

171888-28-1 CAPLUS
2,5-Piperazinedione, 3-[[5-[2-[2-(dimethylamino)ethoxy]ethoxy]-2-thienyl]methylene)-6-(phenylmethylene)-, unnohydrochloride, (Z,Z)- (9CI) (CA INDEX MARE)

● HC1

L7 ANSWER 29 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
1995:864144 CAPLUS
114:55901
Novel bis-(N-alkyl-N,N-dimethylammonium)
Novel bis-(N-alkyl-N,N-dimethylammonium)
Polysthylenselycol ether salts as phase transfer catalysts in the condensation of 1.4-diacetyl-2.5-piperazimedione and aldehydes

AUTHOR(S):
Wang, Li-xin, Yu, Ming-hua, Shi, Yao-zeng, Hu,
Hong-wen
Department of Chemistry, Nanjing University, Nanjing,
210008, Peop. Rep. China
SCURCE:
Chemical Research in Chinese Universities (1995),
11(2), 178-84
CODEN: CRCUED) ISSN: 1000-9213
Higher Education Press
DOCUMENT TYPE:
Journal
LANGUAGE:
English

DOCUMENT TYPE: LANGUAGE:

MENT TYPE: Journal

English

The use of bis-(N-alkyl-N,N-dimethylammonium) polyethyleneglycol ether salts as phase transfer catalysts for the condensation reaction of 1.4-diacetyl-2.5-piperasinedison with aldehydes was reported. A example catalyst is 2, 2'-oxybis[N,N,N-trimethylethanaminium] dichloride.

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)
14392-14-9 CAPUUS
2,5-Piperazinedione, 3,6-bis(2-furanylmethylene) - (9CI) (CA INDEX NAME)

114932-14-8 CAPLUS 2,5-Piperazinedicne, 3,6-bis(2-furanylmethylene) - (9CI) (CA INDEX NAME)

L7 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
1098:630947 CAPLUS
1091:30947
Composed systems derived from piperazine-2,5-diome
Katritsky, Alan R., Fan, Wei Olang, Szajda, Maria, Li,
Olao Ling, Caster, Kenneth C.
Dep. Chem., thiv: Florida, Gainesville, FL, 32611, USA
JOURNEL STORE:
DOCUMENT TYPE:
LANGUAGE:
50172

LANGUAGE: OTHER SOURCE(S): GI English CASREACT 109:230947

The preparation of mono- and of sym. and unsym. bis-ylidine derivs. of piperagine-2,5-diome is described. The UV-visible absorption of indolylidens derivs. I (R = 4-R1C6H4, 3-ClCSH4, 2-pyridyl, 4-pyridyl, R1 = H, Me, MeO, NO2) is correlated with acceptor/denor character of the

H. Me., MeO., NO2) is correlated with acceptor/donor character of the subscituments.
7670-69-19 114912-62-89 117563-27-69
RI: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and condensation reaction of, with chloroindolone or nitrobennal dehyde)
7570-69-1 CAPLUS
2,5-Fiperazinedione, 3,6-bis(2-pyridinylmethylene) - (SCI) (CA INDEX NAME)

L7 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:417408 CAPLUS
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115:17408 AUTHOR (S) :

DOCUMENT TYPE: LANGUAGE:

Neihumicin (I) isolated from a culture of M. neihumnsis showed cytotoxic activity against XB cells (EDS0 0.94 Mg/mL) and microbicidal activity against Saccharomyces cerevisiae. The piperasine-2,5-diome present was essential for its cytotoxic activity. The analogs of I were also prepared, and they also showed cytotoxicity.
105975-15-3F 114912-62-8F 114932-14-8B
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SFN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PEBP (Preparation), USES (Uses) (preparation and antitumor activity of)
105975-15-3 CAPIUS
2,5-Piperazinedione, 3,6-bis(2-thienylmethylene)- (9CI) (CA INDEX NAME)

114912-62-8 CAPLUS
2,5-Piperazinedione, 3,6-bis(4-pyridinylmethylene)- (9CI) (CA INDEX NAME)

114912-62-8 CAPLUS 2,5-Piperazinedione, 3,6-bis(4-pyridinylmethylene) - (9CI) (CA INDEX NAME)

117563-27-6 CAPLUS

2,5-Piperazinedione, 3-[(4-nitrophenyl)methylene]-6-(2-pyridinylmethylene)(9CI) (CA INDEX NAME)

117563-28-7P RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and visible spectra of) 117563-28-7 CAPLUS

2,5-Piperazinedione, 3-{(4-nitrophenyl)methylene}-6-(4-pyridinylmethylene)-(9C1) (CA INDEX NAME)

L7 ANSHER 12 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
198:416593 CAPLUS
109:16593
Neihumicin, a new cytotoxic antibiotic from
Hicromonesporn neihuensis. III. Structure-activity
relationships
Yokoi, Toshio, Yang, Li Ming, Yokoi, Toshio, Wu, Rong
Yang, Lee, Kuo Hsiung
Sch. Pharm., Univ. North Carolina, Chapel Hill, NC,
27514, USA
DOURGE:
DOCUMENT TYPE:

CORPORATE SOURCE:
JUNTAJ, ISSN: 0021-8820
Journal of Antibiotics (1988), 41(4), 494-501

DOCIMENT TYPE

OTHER SOURCE(S):

English CASREACT 109:16593

Structure-cytotoxicity relations indicated that the C-3 [1, R = Ph. C6ES-n(CMe)n (n = 1-2) or pyridyl) and C-6 [11, R = coluyl, chlorophenyl, C6ES-n(CMe)n (n = 2 or 3), pyridyl, Ph. furyl or thimpyl] disabetituted piperaxine-2,5-dienes are structurally required for significant cytotoxicity, and the neihumicin-like C-3 and C-6 disubstituted unsymaliperaxine derive, are, in general, nore cytotoxic than the corresponding symalpiperaxine-2,5-dienes. Several synthetic analogs including 3,6-di-(2,4,5-trimathoxybensyl) tidene) piperaxina-2,5-diene, 3,6-dibensylidene-2-ethoxy-3,6-dihydropyraxin-5-one, and 3,6-bis(2,4,5-trimathoxybensyl) tidene) piperaxina-2,5-diene, 3,6-dibensylidene-2-ethoxy-3,6-dihydropyraxin-5-one, and 3,6-bis(a-chlorobensylidene)-2-methoxy-3,6-dihydropyraxin-5-one, were prepared and shown to be uore cytotoxic than neihumicin. 105975-15-39 114912-62-8F 114932-14-8P RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TBU (Therapeutic use); BIOL (Biological study); PEDP (Preparation); USES (Uses) (preparation and cytotoxicity of) 105975-15-3 CAPLUS (S-Fiperaxinedione, 3,6-bis(2-thienylmethylene)- (9CI) (CA INDEX NAME)

114912-62-8 CAPLUS
2,5-Piperazinedione, 3,6-bis(4-pyridinylmethylene) - (9CI) (CA INDEX NAME)

RN 114932-14-0 CAPLUS
CN 2,5-Piperazinedione, 3,6-bis(2-furanylmethylene) - (9CI) (CA INDEX NAME)

active CH2 group of I to leave a free electron pair in the ring system which forms a C-C bond with the electrophilic C atom of the aldebyde. Loss of H20 then results in the formation of a double bond. Mitrose compode. Behaved similarly. Finely powdered I (0.05 mole) was mixed with 0.1 mole aldebyde or nitrose compode. See M20. Fine Ac07. Fine Ac08. and 25 g. Ac20, the mixture heated 3 hrs. at 130.40° in an oil-bath and cooled, hot H20 added, and when coil dthe aqueous phase filtered to remove insol. material. The residual resin was treated with hot EtCH and the precipitate boiled several times with EtCH. Energystn. from glacial Ac0H or precipitation with H20 from a glacial AcCH collowing new muberitude 2,5-discoppierazines were obtained (starting material, substituents, % yield, and m.p. given):
salicylaledshyda, 3,6-bis (2-acetoxybensylideme) 251.5° (decomposition) (glacial AcOH) m-hydroxybenzaldehyde, 3,6-bis (3-acetoxybensylideme), 7373 (decomposition); 2,5-dihydroxybenzaldehyde, 3,6-bis (3-acetoxybensylideme), 3,6-bis (3-acetoxybensylideme), 3,6-bis (3-acetoxybensylideme), 57, 220-2° (decomposition); m-nitrobenzaldehyde, 3,6-bis (3-acetoxybensylideme), 3,6-bis (3-acetoxybensylideme), 57, 120-12° (decomposition), m-nitrobenzaldehyde, 3,6-bis (3-acetoxybensylideme), 57, 120-12° (decomposition), p-nitrobenzaldehyde, 3,6-bis (3-his (2-his cylideme)), 58, 165° (decomposition), p-nitrobenzaldehyde, 3,6-bis (3-bis (4-nitrobensylideme)), 58, 165° (decomposition), p-nitrobenzaldehyde, 3,6-bis (3-bis (2-pis), 58, 165° (decomposition), p-nitrobenzaldehyde, 3,6-bis (3-bis (3-bis (4-pis), 58, 165°), 160-2°, o-chlorobenzaldehyde, 3,6-bis (3-bis (3-bis (3-pis), 58, 165°), 160-2°, o-chlorobenzaldehyde, 3,6-bis (3-bis (3-pis), 160-2°, o-chlorobenzaldehyde, 3,6-bis (3-pis), 160-2°, o-chlorobenz

for 12 hrs., the mixture was filtered hot. A crystallins mass separated on cooling;
this was washed with cold H2O and crystallized from glacial AcCH or precipitated from a commentrated glacial AcCH solution with H2O to give the following substituted a commentrated glacial AcCH solution with H2O to give the following substituted 2.5-dioxopieraxines (substituents, % yield, and m.p. given): 3.6-bis(2-chlorobensyl), 74. 247%, 3.6-bis(4-cyanobensyl, 70, 250% (decomposition).

11 7670-68-0, 2.5-Piperaxinediome, 3.6-bis(inidazol-4(or 5)-ylmethylene) - 7670-69-1, 2.5-Piperazinediome, 3.6-bis(2-pyridylmethylene) - (preparation of)

EN 7670-68-0 CAPLUS

NAME)

NAME

L7 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1973:67618 CAPLUS DOCUMENT NUMBER: 76:67618 TITLE: Potential hypolipidemic agents

ACCESSION NUMBER: 1973:476:8 CAPLUS

DOCUMENT HUMBER: 76:67618

Potennial hypolipidemic agents. III. Heterocyclic compounds affecting free facty acid mobilization in compounds affecting free facty acid mobilization. Belgstrand, Erik, Sjoberg, Berndt; Stjørnstrom, Mile E. King Gustaf Vth Res. Inst., Stockholm, Swed.

Acta Pharmaceutica Suscica (1972), 9(4), 289-304 (CODZY: AFSKAS; ISSN: 0001-6675

DOCUMENT TYPE: Journal LANCHAGE: Belgish

AB Compds. wich as 3-methyl-5-isoxasolecarboxylic acid (4857-62-5), S-fluoronicotinic acid (495-64-4), 5-fluoron-3-pyridylacetic acid [38139-24-7], and 3-methylpyrasole [1453-58-3] exhibited the highest inhibition of free facty acid mobilization in blood among 188 heterocyclic compds. tested in dogs, while compds. such as 5-methyl-3-isoxasolecarboxylic acid (305-77-4), 2-fluoronicotinic acid (393-55-5), and 3-aminobensoic acid [99-05-8) had no effect on free fatty acid mobilization.

IT 41668-18-2

RE: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), BIOL (Biological study) (lipid metabolis minhibition by)

RN 41668-18-2 CAPLUS

CN 2,5-Piperaxinedione, 3,6-bis(3-pyridinylmethylene)- (9CI) (CA INDEX NAME)

L7 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2005 ACS on STM

ACCESSION NUMBER: 166:490652 CAPLUS

DOCUMENT NUMBER: 55:190652

7:5-Dicoxopiperazines. II. Reaction of 2.5-Dicoxopiperazines. II. Reaction of 3.5-Dicoxopiperazine with aldehydes and nitroso compounds

AUTHOR(S): Augustin. Manfred

AUTHOR(S): Halle, Germany

Journal fuer Fraktische Chemie (Leipzig) (1966),

22(3-4), 158-66

COUDEN: JOECAN ISSN: 0021-8383

DOCUMENT TYPE: Journal

AB of. CA 61, 70143, 64, 177079. Aldehydes containing a grouping capable of polarizing the CiO group can react with 2,5-dicoxopiperazine (I) in

H20-extracting solvents. The strongly neg. O atom takes up a proton from the

7670-69-1 CAPLUS
2,5-Piperazinedione, 3,6-bis(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)

L7 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1958:65035 CAPLUS
OCCUMENT NUMBER: 52:65035
CRIGINAL REFERENCE NO.: 52:110-33b-c
TITLE: SYNTHOSE: 5ynthosis of 6-2-thienylalanine
AUTHOR(S): 60|'dfarb, Ya. L.; Fabrichnyi, B. P.; Shalavina, I. F.
CCHPORATE SOURCE: 15 CHIRCH IN INE. OFF. Chem. Moscow
15 CORPORATE SOURCE: 1550| 96-100
CCDENT 145XA6; ISSN: 0002-3353

CODEN: 1ASKA6, ISSN: 0002-3353

CODEN: 1ASKA6, ISSN: 0002-3353

CODEN: 1ASKA6, ISSN: 0002-3353

LANGUAGE:

Unavailable

Beating 8.5 g. dioxopiperatine, 20.8 g. 2-thiophenecarboxaldehyde, 25 g. NaGac, and 35 ml. Ac20 8 hrs. at 130° gave, after aqueous treatment and leaching with hot EtcH, 15.2 g. yellow 2.5-di(2-thenylidene)-3,6-dioxopiperatine, decompose 310-14°, reacheed with Na-Hg in EtcH to 3.5-di(2-thenyl)-3,6-dioxopiperatine, decompose 263-5° (EtcH), which, hydrolyzed with aqueous Ba(GH) 24 hrs. gave 578 2-CHISCHIZCH(NE2)COZH, decompose 269° (EZO).

IT 105975-15-3, 2-5-piperazinedione, 3,6-di-2-thenylidene-(preparation of)

EN 105975-15-3 CAPUNS

CN 2,5-Piperazinedione, 3,6-bis(2-thienylmethylene)- (9CI) (CA INDEX NAME)

L7 ANSHER 36 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSIGN NUMBER: 1942:39210 CAPLUS
DOCUMENT NUMBER: 36:39210
SIGNAL REFERENCE No. 36:19320
TITLE: Synthesis of the three isomeric dl - βpyridylalanines
AUTHOR(S): Whemann, Carl) Lewis, Richard M., Hays, Niesann, Carl, Lewis, Richard N., Hays, John T. Journal of the American Chemical Society (1942), 64, 1678-82 AUTHOR (S) : SOURCE:

CODEN: JACSAT, ISSN: 0002-7863

DOCUMENT TYPE: OTHER SOURCE(S):

COMEN: JACSAI, ISEN: 0002-7863

NEAT TYPE: Journal
RIAGE: Unavailable
RE SOURCE(S): CANFRACT 36:19210

di-P-(2-Pyridy)|alanian (I), u. 205.5-6*, results in 17* yield
frum (2-pyridy)|alanian (I), u. 205.5-6*, results in 17* yield
frum (2-pyridy)|alanian (I), u. 205.5-6*, results in 17* yield
frum (2-pyridy)|alanian (1), u. 205.5-6*, results in 17* yield
frum (2-pyridy)|alanian (1), u. 205.5-6*, results in 17* yield
frum (2-pyridy)|alanian (4)* HER; Overhoff, Boeke and Gorter (C.
A. 30, 5223.4) give 216* as the m. p. of I. Picolinic hydraxide
and Ph502C1 in CSENS give a quant. yield of picolinic
phenylsulfonyhydraxids (II), u. 202-3.5*; heating 25 g. II, 24 g.
anhydrous Na2CO3 and 100 u.l. CERS(CB) at 160* for 2 cin. gives 20* of
picolinaldehyde (III), the failure of III to condense with hippuric acid
or diktopiperaxine (IV) is she to side reactions which lead to loss of
III through tar formation. Nicotinic hydraxide gives 92.5* of
nicotinaldehyde (V). V has greater resonance energy than III and more
closely resembles the arcmatic aldehydes than does III. Heating 0.67 g.
of V, 1 g. of acetylthichydantoin, 0.53 g. anhydrous AcONa and 5 ul. Ac20 at
10-15* for 30 min. the product extracted with hot E20 and the residue
refluxed for 6 hrs. with 6 ul. Ac20, 6 ul. HI and 1.3 g. red P give 60* of
5-(3-pyridy)techty)|thichydantoin, m. 249-52*. V and IV with Ac20
and AcONa give 50* of dinicotinylidenediketopiperaxine (VI), yellow, u.
above 300°, refluxing 9.7 g. of VI with 6.7 g. red P, 67 ull. HI and
67 ul. Ac20 for 6 hrs. gives 60* of di-3-(3-pyridy)|alanian (VII), u.
162-3*, it has a very sweet taste, gives a violet color with
ninhydrin, and forus a diplorate, u. 187-92*. Isonicotinic
phenylsulforabhol-ECI (VIII), u. 167-722*, refluxing 1.6 g. of VIII), u.
145-50*, thas a very writating action on the akin. IX (2.6
g.) gives 0.24 g. of a condensation product with the Na derivative of
hennamidonalcoic ester. u. 106-77*, hydrolysis of which yields 0.11
g. of dl-P-(4-pyridy)|alanian (X), u. 235-6*, ninhydrin gives
a red col

L7 ANSWER 37 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSIGN NUMBER: 1931:13822 CAPLUS
DOCUMENT NUMBER: 25:13822
ORIGINAL REPERENCE NO: 25:15806-6
TITLE: Spectrochemical study of amino

25:1508c-e Spectrochemical study of amino acid anhydrides. IV. Light absorption of derivatives of allactomes, diketopiperazine, hydantoin and thiohydantoin Asahina. Tie-ichi Bulletin of the Chemical Society of Japan (1930), 5, 354-65 CODEN: BCSJAS, ISSN: 0009-2673

AUTHOR(S): SOURCE:

the presence of lactic acid gave 62% of III. Hydrolysis of the CS group in V by beating in a sealed tube with ClGECO2H converted it into 3.5-dimethyl-4-earbethoxy-2-pyrrylpyruvic acid, m. 192*.

1.Phemyl-2-5-dimethyl-3-carbethoxy-y-role was condensed with aminoacetal by heating with concentrated ECI, forming -phemyl-2-5-dimethyl-3-carbethoxy-y-role with CH2O and ECI yielded dill-phemyl-2-5-dimethyl-4-carbethoxypyrrole with CH2O and ECI yielded dill-phemyl-2-5-dimethyl-4-carbethoxypyrrole with CH2O and ECI yielded dill-phemyl-2-5-dimethyl-4-carbethoxy-3-pyrryllmethams, m. 102*.
858284-13-5-(3.5-Piperasimedicne, 3.6-bis(4-carboxy-3.5-dimethyl-2-pyrryl)methylene]-, diethyl-seter (preparation of)
(preparation of)
(preparation of)
2-5-Piperasimedicne, 3.6-bis(4-carboxy-3.5-dimethyl-2-pyrryl)methylene)1.4-dimethyl-, diethyl ester (3CI) (CA INDEX NAME)

di I1

858850-88-1 CAPLUS

2.5-Piperazinedione, 3.6-bis[(4-carboxy-3.5-dimethyl-2-pyrryl)methylene]-, diethyl ester (3CI) (CA INDEX NAME)

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DOCUMENT TYPE: Journal

LANGMAGE: Unavailable

GI For diagram(s), see printed CA Issue.

Ab cf. C. A. 24, 298. The ultraviolet absorption of anlactomes of substituted hippuric acids, ECH.C.OO.O.CPh.W where R is o. (I), n. (II), or p. ACOCCSH (III), o. (IV), n. (V), or p. ACOCCSH (IVI), of RCH:C(COZH)EMCOPh, where R is furyl (VII), Ph (VIII), o., n. or p-HOCCSH (XV), o., n. or p-MOCCSH (XVI), dibental. (IXI), and difuraldisteropiperasine (X), 4-bental. (XI), and 4-furalhydantoin (XIII), 2-thichydantoin and its following derive. 3-acetyl, 3-benzoyl, 3-acetyl.4-benzyl, 4-(benzyl, 4-(p-hydroxybenzyl), 4-benzal (XIII) and 4-fural (XIV), VIII, X, XII and XIV are more bathochronic and hyperchronic than VIII, IX, XI and XIII, I, II and III have an absorption maximum near 3580 A. U. IV and VI have the same saximum while V is less behochronic. The azlactomes are far more bathochronic than their hydrolysis products, XV and XVI. Absorption curves and methods of preparation are given.

II 114932-14-8, 2,5-Piperasinedione, 3,6-difural(SPECTUM of CA INDEX NAME)

L7 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMEER: 1926:4734 CAPLUS
DOCUMENT NUMEER: 22:4734
ORIGINAL REFERENCE NO.: 22:5886f-1,589a
TITLE: Some pyrrole derivatives. II
AUTHOR(S): Subser, Wa., Koppenhofer, G.
SOURCE: Z. physiol. Chem. (1927), 172, 126-37
JOURNAL TYPE: JOURNAL DOCUMENT TYPE: DOCUMENT TYPE:

LANGUAGE:

NEED: Any polyment of the second of the seco